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S0418: 1, S0358: 1, H0441:
1, H0392: 1, H0415: 1,
H0333: 1, H0486: 1, H0013:
1, H0427: 1, H0156: 1,
H0599: 1, H0318: 1, H0581:
1, H0421: 1, S0049: 1,
H0196: 1, H0052: 1, L0040:
1, H0546: 1, L0471: 1,
H0014: 1, H0051: 1, H0375:
1, S0003: 1, H0644: 1,
L0142: 1, L0143: 1, H0673:
1, H0038: 1, H0040: 1,
H0616: 1, S0306: 1, H0207:
1, S0002: 1, H0695: 1,
L0638: 1, L0662: 1, L0387:
1, L0766: 1, L0774: 1,
L0375: 1, L0807: 1, L0783:
1, L0793: 1, L0664: 1,
H0723: 1, H0547: 1, H0689:
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L0752: 1, L0755: 1, L0757:
1, L0759: 1, L0608: 1,
L0362: 1, H0668: 1, H0665:
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1302	HWBDL33	905114	1312	545 - 1288	2717	Gln-23 to Lys-39, Glu-150 to Thr-158.	S0456: 1. AR096: 18, AR053: 11, AR089: 11, AR039: 11, AR060: 8, AR033: 7, AR104: 7, AR055: 5, AR052: 5, AR061: 4 L0748: 11, H0580: 7, H0575: 7, H0031: 5, H0581: 4, H0522: 4, L0731: 4, S0376: 3, H0529: 3, H0521: 3, S0354: 2, H0427: 2, H0590: 2, T0023: 2, H0090: 2, H0710: 2, H0555: 2, L0751: 2, L0759: 2, S0356: 1, S0444: 1, H0645: 1, H0392: 1, H0587: 1, H0497: 1, H0486: 1, H0250: 1, S0280: 1, H0042: 1, H0318: 1, H0014: 1, H0644: 1, H0068: 1, S0142: 1, L0794: 1, L0805: 1, L0776: 1, S0374: 1, S0380: 1, L0754: 1, L0758: 1, H0445: 1, H0595: 1, S0434: 1, L0362: 1, H0653: 1 and S0424: 1.	178-207, 43-72, 115-138, 87-104
1303	HAABQ61	905116	1313	100 - 1068	2718	Met-1 to Ser-12, Gln-18 to Cys-23, Glu-46 to His-52, Thr-262 to Lys-268.	AR053: 9, AR052: 8, AR096: 6, AR039: 6, AR055: 5, AR089: 5, AR060: 4, AR033: 3,	267-295, 211-238, 236-260, 123-144

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| 1306 | HAHSE23 | 905257 | 1316 | 48 - 749 | 2721 | Leu-24 to Gln-35, Arg-59 to Pro-64, Glu-71 to His-78, Asp-89 to Gly-94, Pro-141 to Val-151, Thr-167 to Val-172, Ala-175 to Thr-180. | H0327: 1, H0546: 1, S0050: 1, H0355: 1, S0250: 1, S0003: 1, H0252: 1, H0428: 1, T0006: 1, H0617: 1, H0032: 1, H0169: 1, L0455: 1, S0366: 1, H0591: 1, H0268: 1, S0038: 1, T0041: 1, H0714: 1, S0440: 1, H0633: 1, S0144: 1, S0422: 1, H0529: 1, L0369: 1, L0769: 1, L0772: 1, L4500: 1, L0651: 1, L0606: 1, L0657: 1, L0659: 1, L0530: 1, L0791: 1, L0792: 1, L0793: 1, H0144: 1, S0374: 1, H0723: 1, H0519: 1, H0539: 1, H0710: 1, H0709: 1, H0522: 1, S0013: 1, S0206: 1, L0755: 1, L0592: 1, L0366: 1, H0665: 1, S0192: 1, S0242: 1, S0196: 1, H0543: 1 and S0462: 1. AR089: 2, AR096: 1, AR061: 1, AR060: 1, AR104: 0, AR033: 0, AR052: 0, AR055: 0, AR053: 0 | 193-216, 216-234, 5-21 |

| 1307 | HWMFE21 | 905289 | 1317 | 150 - 2288 | 2722 | Arg-48 to Asn-56, Gly-166 to Ser-175, Tyr-250 to Leu-261, Glu-329 to Gly-355, Ala-378 to Tyr-383, Gly-390 to Tyr-413, Pro-422 to Cys-433, Gln-491 to Tyr-496, Phe-511 to Ser-520, Pro-542 to Arg-551, Arg-568 to Val-582, Gly-595 to Glu-601, Gln-608 to Pro-614, Pro-669 to Pro-678. | AR033: 11, AR053: 11, AR089: 9, AR052: 8, AR055: 8, AR096: 7, AR039: 7, AR060: 5, AR061: 4, AR104: 3 H0556: 8, H0521: 8, H0550: 6, L0601: 6, S0358: 5, S0126: 5, S0040: 4, H0662: 4, H0622: 4, S0144: 4, S0027: 4, S0436: 4, H0620: 3, H0266: 3, H0124: 3, H0135: 3, H0551: 3, L0743: 3, L0754: 3, H0667: 3, H0265: 2, H0294: 2, S0134: 2, H0663: 2, S0442: 2, S0376: 2, H0619: 2, H0393: 2, H0370: 2, T0040: 2, H0250: 2, H0599: 2, H0575: 2, H0318: 2, H0597: 2, H0544: 2, H0545: 2, H0050: 2, H0179: 2, H0271: 2, H0428: 2, H0030: 2, H0641: 2, S0210: 2, L0646: 2, L0659: 2, L0666: 2, H0435: 2, H0670: 2, S0328: 2, H0539: 2, S0152: 2, H0555: 2, S3014: 2, S0028: 2, S0031: 2, H0445: 2, H0665: 2, S0192: 2, H0543: 2, H0717: 1, T0049: 1, | 438-469, 1-17 |

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1308	HHBEA82	905311	1318	259 - 3081	2723	Gln-33 to Trp-49, Gly-161 to Gly-172, Ile-207 to Arg-212, Asn-414 to Val-419, Val-423 to Gln-428, Val-436 to Gly-441, Lys-467 to Leu-478, Phe-497 to Ser-508, Met-550 to Gly-560, Glu-688 to Thr-697, Ile-711 to Gly-720, Ala-747 to Gly-759, Leu-785 to Phe-791, Ser-795 to Gln-800, Thr-808 to Lys-813, Ser-821 to Phe-832, Thr-879 to Glu-889, Leu-898 to Gln-904, Gln-934 to Met-941.	AR033: 106, AR061: 86, AR096: 76, AR060: 76, AR039: 74, AR055: 70, AR089: 51, AR104: 43, AR052: 40, AR053: 34 H0521: 3, H0373: 1, H0268: 1, L0803: 1 and H0522: 1.	7-28, 132-148, 759-775, 235-251
1309	HWHPC10	905322	1319	172 - 1302	2724		AR096: 1, AR055: 1, AR089: 1, AR060: 1, AR104: 1, AR061: 0, AR039: 0, AR052: 0, AR033: 0 L0748: 5, H0556: 4, H0046: 3, L0766: 3, L0666: 3, L0754: 3, L0757: 3, H0083: 2, H0622: 2, H0623: 2, S0344: 2, L0783: 2, L0789: 2, L0665: 2, L0439:	69-111, 264-287, 5-22, 198-214, 99-115

1310	HDPXZ89	905371	1320	243 - 3488	2725		
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1311	HLICA89	905505	1321	121 - 456	2726	Asn-21 to Pro-26, Pro-35 to Arg-44.	1, S0308: 1, S0434: 1, L0605: 1 and H0506: 1. AR033: 4, AR061: 3, AR089: 3, AR060: 2, AR052: 1, AR104: 1, AR055: 0, AR053: 0, AR039: 0, AR096: 0	85-102
1312	HTTDZ50	905792	1322	5 - 2083	2727	Gly-25 to His-31, Thr-54 to Thr-59, Pro-77 to Leu-82, Ser-94 to Asn-99, Ser-187 to Lys-205, Leu-222 to Arg-228, Pro-234 to Ile-249, Tyr-293 to Arg-302, Ser-319 to Asp-337, Thr-408 to Gln-418, Ser-560 to Asn-565, Ser-567 to Gln-588, Glu-643 to Asn-656.	AR096: 105, AR053: 42, AR052: 32, AR089: 16, AR055: 16, AR039: 14, AR061: 11, AR060: 8, AR033: 6, AR104: 4 L0748: 7, H0486: 5, L0740: 5, H0457: 4, H0521: 4, L0439: 4, L0777: 4, H0581: 3, H0040: 3, L0747: 3, L0779: 3, S0040: 2, S0376: 2, H0587: 2, H0013: 2, H0390: 2, H0622: 2, H0591: 2, S0422: 2, L0774: 2, L0659: 2, L0664: 2, L0749: 2, L0758: 2, S0434: 2, L0591: 2, H0423: 2, H0624: 1, H0685: 1, S0342: 1, H0650: 1, H0657: 1, H0300: 1, S0420: 1, S0408: 1, S0045: 1, H0462: 1, S0222: 1, H0574: 1, H0632:	537-556, 656-672, 459-475, 368-384, 623-639, 58-74, 4-20, 260-276

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1315	HWLHJ13	905994	1325	117 - 1097	2730	Pro-64 to Glu-70, Pro-84 to Lys-90, His-112 to Gly-117, Asn-124 to Tyr-130, Pro-148 to Gln-155, Ser-167 to Pro-173, Gln-267 to Gly-279.	AR096: 21, AR089: 8, AR039: 7, AR033: 5, AR053: 5, AR055: 4, AR060: 3, AR052: 3, AR061: 3, AR104: 2, L0599: 5, S0434: 4, S0358: 3, S0444: 3, H0622: 3, S0354: 2, S0408: 2, H0597: 2, L0809: 2, S0330: 2, S0442: 1, H0085: 1, H0183: 1, L0738: 1, S0440: 1, L0764: 1, L0662: 1, L0659: 1, L0519: 1, L0789: 1, L0790: 1, L0665: 1, S0374: 1, H0689: 1 and L0750: 1.	11q24 — 600359, 602574, 602574	238-266, 5-28, 133-149
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| 1318 | HAQCD43 | 906145 | 1328 | 189 - 722 | 2733 | Thr-19 to Ala-33, Leu-54 to Asp-82, Pro-89 to Ala-97, Pro-100 to Lys-125, Ser-127 to Phe-135, Gly-164 to Leu-169, Cys-173 to Arg-178. | H0556: 2, H0013: 2, T0110: 2, H0572: 2, L0770: 2, L0803: 2, S0126: 2, L0439: 2, S0408: 1, S0132: 1, H0619: 1, H0549: 1, S6016: 1, H0266: 1, S0250: 1, H0615: 1, H0428: 1, H0039: 1, S0036: 1, H0591: 1, H0040: 1, H0616: 1, H0056: 1, T0041: 1, L0769: 1, L0637: 1, L0794: 1, L0804: 1, L0666: 1, H0648: 1, H0539: 1, H0696: 1, S0406: 1, L0748: 1, L0740: 1, L0745: 1, L0756: 1, L0752: 1, L0592: 1 and L0096: 1. | AR039: 75, AR052: 36, AR096: 35, AR089: 35, AR033: 34, AR053: 33, AR055: 30, AR104: 28, AR060: 23, AR061: 20 L0777: 14, L0747: 9, S0360: 7, H0617: 7, L0758: 7, S0356: 6, H0486: 6, L0794: 6, L0779: 6, H0038: 5, L0789: 5, H0436: 5, L0748: 5, L0751: 5, L0749: 5, H0294: 4, S0114: 4, H0341: 4, H0255: 4, H0661: 4, H0581: 4, S0022: 4. | 143-165, 2-18 |

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H0381: 1, S0001: 1, H0663: 1, H0402: 1, H0305: 1, S0348: 1, H0580: 1, H0722: 1, H0728: 1, S0132: 1, S0278: 1, H0549: 1, H0592: 1, H0587: 1, H0497: 1, H0492: 1, L0622: 1, T0040: 1, H0069: 1, H0635: 1, H0156: 1, L0021: 1, H0618: 1, T0048: 1, H0318: 1, H0251: 1, H0309: 1, H0263: 1, H0597: 1, H0545: 1, H0150: 1, H0041: 1, H0050: 1, L0471: 1, H0620: 1, H0024: 1, S0388: 1, S0051: 1, H0594: 1, H0188: 1, S0334: 1, H0292: 1, H0284: 1, H0688: 1, L0483: 1, T0006: 1, H0644: 1, H0182: 1, H0090: 1, H0591: 1, H0040: 1, H0063: 1, T0067: 1, H0264: 1, H0268: 1, H0412: 1, H0056: 1, H0100: 1, H0280: 1, H0561: 1, H0509: 1, S0210: 1, S0426: 1, L0369: 1, L0520: 1, L0762: 1, L0769: 1, L0639: 1, L3904: 1, L0761: 1, L0772: 1, L0646: 1, L0800: 1, L0643: 1, L0768: 1,

1319	HTPCP50	906161	1329	67 - 2139	2734			
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1320	HWLCJ12	906285	1330	704 - 1051	2735	Tyr-553 to Thr-558, Lys-670 to Leu-678.	H0713: 1, H0716: 1, T0049: 1, H0662: 1, S0356: 1, H0722: 1, H0486: 1, S0280: 1, H0575: 1, H0024: 1, H0375: 1, H0266: 1, H0428: 1, H0039: 1, T0006: 1, H0032: 1, H0090: 1, H0268: 1, H0413: 1, H0509: 1, L0375: 1, L0789: 1, L0666: 1, S0126: 1, H0670: 1, H0539: 1, H0521: 1, S0032: 1, L0754: 1, L0779: 1, L0759: 1, H0444: 1 and S0434: 1.	79-105, 41-57
							AR089: 5, AR039: 2, AR060: 1, AR052: 1, AR061: 1, AR055: 1, AR033: 1, AR096: 0, AR053: 0, AR104: 0 S0356: 4, H0596: 2, H0032: 2, H0685: 1, S0442: 1, S0354: 1, H0270: 1, H0156: 1, H0046: 1, H0622: 1, L0483: 1, H0674: 1, S0440: 1, L0372: 1, L0364: 1, L0805: 1, L0663: 1, S0374: 1, S0434: 1 and L0599: 1.	
1321	HTHCK88	906306	1331	646 -	2736	Asp-50 to Ser-58,	AR053: 41, AR096: 28,	168-203,

| 1322 | 906350 | HCE3M15 | 1332 | 493 - 1455 | 2737 | Met-1 to Asn-6, Asp-103 to Thr-109. | AR053: 12, AR052: 11, AR033: 10, AR096: 10, AR055: 10, AR060: 9, AR089: 8, AR104: 7, AR061: 7, AR039: 3 L0752: 5, L0766: 3, H0586: 2, H0266: 2, H0031: 2, H0433: 2, L0776: 2, L0749: 2, L0758: 2, L0599: 2, H0556: 1, S6024: 1, H0600: 1, H0052: 1, H0545: 1, H0439: 1, H0628: 1, H0080: 1, L0598: 1, L0769: 1, L0637: 1, L0662: 1, L0774: 1, L0807: 1, L0659: 1, L0635: 1, L0666: 1, L0665: 1, L0565: 1, L0438: | 277-293, 24-40, 221-237, 111-127 |
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| 1323 | HSKGT01 | 906487 | 1333 | 219 - 530 | 2738 | Ser-15 to Gly-23. | AR096: 4, AR055: 4, AR052: 4, AR053: 3, AR039: 3, AR060: 3, AR033: 3, AR089: 3, AR104: 3, AR061: 2 L0805: 6, L0770: 5, L0803: 5, L0777: 5, L0776: 3, L0740: 3, L0750: 3, L0759: 3, H0599: 2, T0041: 2, H0670: 2, L0439: 2, L0747: 2, H0341: 1, S0418: 1, S0280: 1, H0318: 1, H0014: 1, S0250: 1, H0252: 1, H0328: 1, H0087: 1, H0494: 1, H0633: 1, L0763: 1, L0796: 1, L0651: 1, L0657: 1, L0558: 1, L0809: 1, L0789: 1, L0790: 1, L0666: 1, L0663: 1, H0519: 1, H0689: 1, H0710: 1, S0152: 1, S3014: 1, L0755: 1, H0445: 1, S0436: 1, L0599: 1, H0423: 1 and H0352: 1. | 1, H0435: 1, S0328: 1, H0539: 1, H0522: 1, H0696: 1, S0406: 1, H0478: 1, S0032: 1, L0748: 1, L0754: 1, L0750: 1, L0756: 1 and H0707: 1. | 34-68, 81-97, 63-79 |

1324	HTAIJ50	906718	1334	57 - 560	2739	Met-1 to Ser-6.	96-123, 136-160, 64-82, 22-44
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1325	HCRQM01	906770	1335	107 - 952	2740	Trp-72 to Glu-87, Pro-93 to Gly-105, Ser-117 to Ser-128, Trp-150 to Asp-163, Ser-218 to Pro-226.	12-37, 226-252, 258-274
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L0775: 3, L0655: 3, L0657: 3, H0519: 3, H0670: 3, S0328: 3, H0539: 3, S0378: 3, S0406: 3, L0749: 3, L0777: 3, L0755: 3, H0624: 2, H0583: 2, S0116: 2, H0402: 2, S0354: 2, S0358: 2, S0444: 2, S0410: 2, S0045: 2, H0392: 2, H0318: 2, H0581: 2, T0110: 2, H0046: 2, S0051: 2, H0266: 2, S0003: 2, H0553: 2, H0591: 2, H0634: 2, H0100: 2, H0494: 2, H0561: 2, L0646: 2, L0768: 2, L0806: 2, L0659: 2, L5623: 2, L0789: 2, L0664: 2, L0565: 2, H0689: 2, H0682: 2, H0659: 2, S0380: 2, H0521: 2, H0345: 2, L0741: 2, L0743: 2, L0750: 2, L0757: 2, L0593: 2, L0595: 2, H0667: 2, H0136: 2, H0423: 2, H0352: 2, H0170: 1, H0265: 1, H0686: 1, H0713: 1, S6024: 1, H0692: 1, H0254: 1, H0661: 1, H0663: 1, H0662: 1, H0305: 1, H0459: 1, S0420: 1, S0442: 1, H0619: 1, L0717: 1,

H0406: 1, S0278: 1, H0549: 1, H0592: 1, H0587: 1, H0497: 1, H0333: 1, H0257: 1, H0492: 1, H0427: 1, S0280: 1, L0021: 1, H0599: 1, H0575: 1, H0618: 1, H0253: 1, S0010: 1, S0474: 1, H0596: 1, T0115: 1, H0544: 1, H0546: 1, H0545: 1, L0157: 1, H0123: 1, H0050: 1, L0471: 1, H0620: 1, H0373: 1, L0163: 1, H0051: 1, H0687: 1, H0328: 1, H0688: 1, H0622: 1, T0006: 1, H0181: 1, H0169: 1, H0674: 1, H0708: 1, H0598: 1, H0163: 1, H0616: 1, H0087: 1, H0264: 1, H0268: 1, H0413: 1, H0056: 1, H0623: 1, L0475: 1, S0438: 1, S0150: 1, H0633: 1, H0646: 1, L0369: 1, L0763: 1, L0638: 1, L3904: 1, L0761: 1, L0800: 1, L0773: 1, L0662: 1, L0649: 1, L0522: 1, L0803: 1, L0650: 1, L0774: 1, L0776: 1, L0527: 1, L0558: 1, L0526: 1, L0809: 1, L0666: 1, L0665: 1, H0691: 1,

1326	HPJAS61	906877	1336	129 - 1445	2741		21q22.3		386-418, 323-339, 346-362
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						H0520: 1, H0690: 1, H0683: 1, H0435: 1, H0414: 1, H0660: 1, H0666: 1, H0648: 1, H0478: 1, H0626: 1, S0027: 1, S0028: 1, L0740: 1, L0786: 1, H0595: 1, S0434: 1, S0436: 1, L0596: 1, L0592: 1, S0026: 1, H0542: 1, H0422: 1, S0412: 1, S0424: 1, S0384: 1, S0456: 1, L0600: 1 and H0712: 1.			

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L0653: 2, L0527: 2, L0783:
2, L0809: 2, L0666: 2,
L0664: 2, L0665: 2, S0374:
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L0741: 2, L0743: 2, L0439:
2, L0779: 2, L0752: 2,
L0755: 2, L0757: 2, L0588:
2, L0599: 2, S0040: 1,
S0342: 1, H0717: 1, H0295:
1, T0049: 1, L0760: 1,
H0671: 1, S0420: 1, S0442:
1, H0676: 1, H0637: 1,
H0208: 1, H0619: 1, H0645:
1, H0411: 1, H0549: 1,
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H0596: 1, H0050: 1, H0014:
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H0039: 1, H0031: 1, H0644:
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H0264: 1, H0412: 1, H0056:
1, S0306: 1, H0646: 1,
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1327	HTEKL48	906879	1337	311 - 763	2742	Arg-3 to Pro-9.		79-95
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| 1328 | HUVFI01 | 906880 | 1338 | 103 - 1212 | 2743 | Phe-3 to Ser-9, Glu-64 to Lys-73, Lys-108 to Gly-118, Tyr-140 to Asp-150, Lys-182 to Leu-192. | 1, H0520: 1, H0710: 1, H0522: 1, H0696: 1, H0478: 1, S0028: 1, S0206: 1, L0749: 1, S0434: 1, S0436: 1, L0596: 1, L0603: 1, H0667: 1 and H0136: 1. AR055: 3, AR060: 3, AR053: 3, AR033: 3, AR096: 3, AR089: 3, AR052: 2, AR061: 2, AR039: 1, AR104: 0 | 6p21.1-p12 | 179605, 179605, 179605, 179605, 179605, 180297, 230450, 248611, 263200, 600364, 601498, 601690 | 20-50, 70-97, 118-136, 247-274, 283-310, 201-220 |
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1331	HLJDM86	906945	1341	113 - 565	2746		134-150, 68-84, 46-62
						2, L0809: 2, L0665: 2, S0126: 2, L0740: 2, L0756: 2, L0755: 2, L0758: 2, H0170: 1, S0418: 1, S0360: 1, H0632: 1, H0036: 1, S0010: 1, S0346: 1, L0471: 1, H0014: 1, H0373: 1, H0266: 1, S0334: 1, H0328: 1, H0316: 1, S0036: 1, H0412: 1, H0202: 1, S0440: 1, S0150: 1, H0646: 1, S0422: 1, L0763: 1, L0638: 1, L0764: 1, L0773: 1, L0662: 1, L0649: 1, L0804: 1, L0774: 1, L0666: 1, H0144: 1, H0691: 1, H0547: 1, H0519: 1, H0690: 1, H0683: 1, H0660: 1, S0136: 1, S0404: 1, S0406: 1, S0028: 1, L0754: 1, L0749: 1, L0750: 1, L0731: 1, L0757: 1, H0445: 1, H0343: 1, S0011: 1, S0026: 1 and H0543: 1.	
					Glu-35 to Lys-42, Arg-96 to Ile-116.	AR033: 16, AR039: 14, AR096: 12, AR089: 12, AR104: 10, AR052: 10, AR060: 10, AR053: 10, AR055: 8, AR061: 4	

1332	HTJMG26	906957	1342	45 - 1118	2747	Tyr-24 to Cys-30.	AR096: 4, AR039: 4, AR053: 3, AR052: 3, AR089: 3, AR033: 2, AR104: 2, AR061: 2, AR060: 2, AR055: 2 S0410: 11, L0803: 4, L0659: 4, H0618: 3, H0135: 3, L0637: 3, L0809: 3, L0666: 3, H0696: 3, L0779: 3, S0376: 2, S0132: 2, H0592: 2, H0253: 2, H0050: 2, H0087: 2, H0560: 2, L0761: 2, S0374: 2, L0743: 2, L0751: 2, L0749: 2, L0731: 2, L0759: 2, H0542: 2, H0543: 2, H0171: 1, H0225: 1, H0341: 1, S0212: 1, H0483: 1, S0444: 1, S0408: 1, H0393: 1, L0717: 1, H0370: 1, H0249: 1, H0486: 1, H0101: 1, H0250: 1, H0706: 1, T0048: 1, H0581: 1, H0545: 1, H0009: 1, H0024: 1, H0271: 1, H0288: 1, H0617: 1, S0364: 1, H0163: 1, H0551: 1, H0488: 1, H0100: 1, H0494: 1, L4497: 1, L0770: 1, L0769: 1, L5575: 1, L5565: 1, L3905: 1, L0646: 1,	218-243, 131-150, 47-68, 71-90, 189-206

1333	HDPJZ04	906960	1343	160 - 762	2748	Met-1 to Tyr-15, His-19 to Asn-25, Ser-94 to Trp-103, Val-125 to Asn-131, Glu-149 to Phe-154, Thr-164 to Asn-173.	AR039: 30, AR096: 23, AR089: 17, AR104: 16, AR052: 13, AR053: 12, AR033: 11, AR060: 11, AR055: 3, AR061: 2 H0521: 21, H0522: 3, H0090: 2, L0759: 2, H0638: 1, S0356: 1, S0360: 1, H0619: 1, L0021: 1, H0457: 1, H0111: 1, H0598: 1, S0426: 1, S0052: 1 and H0539: 1. L0764: 1, L0766: 1, L0650: 1, L0774: 1, L0378: 1, L0788: 1, L0790: 1, L0664: 1, L0665: 1, S0126: 1, H0711: 1, S0330: 1, H0436: 1, S0392: 1, S0037: 1, L0742: 1, L0755: 1, L0758: 1, H0445: 1, H0653: 1 and H0423: 1.		36-74, 173-189
1334	HNTND88	906998	1344	150 - 1346	2749	Met-1 to Glu-16, Pro-27 to Ser-32, His-46 to Phe-58, Gln-67 to Arg-75, Arg-209 to Tyr-214, Ser-235 to Arg-244, Ser-303 to Asn-311.	1p13	AR053: 3, AR052: 3, AR033: 3, AR096: 2, AR089: 2, AR104: 2, AR060: 1, AR039: 1, AR061: 1, AR055: 0 H0616: 3, L0748: 3, L0756: 3, H0356: 2, L0766: 2, L0803: 2, H0672: 2.	243-270, 149-171, 282-300, 373-389, 170-186, 114-130 102770, 188540, 600234, 601414, 601691, 601691, 601691, 601691

1335	HJABT11	907007	1345	245 - 994	2750		601718, 602094	73-89, 120-138
					Arg-38 to Ala-51, Pro-53 to His-68, Pro-94 to Arg-103, Met-111 to Leu-118, Arg-159 to Gly-165, Gly-235 to Arg-242, Pro-245 to Glu-250.	AR053: 5, AR055: 5, AR033: 4, AR052: 4, AR089: 3, AR096: 2, AR060: 2, AR061: 2, AR104: 0 L0439: 5, L0769: 4, T0041: 3, L0794: 3, S0380: 3, L0748: 3, T0006: 2, H0673: 2, L0809: 2, S0378: 2, H0556: 1, H0650: 1, H0657: 1, H0638: 1, S6026: 1, H0333: 1, H0253: 1, H0231: 1, H0150: 1, H0399: 1, T0023: 1, H0604: 1, H0213: 1, H0674: 1, H0038: 1, H0264: 1, H0059: 1, S0344: 1, L0646: 1, L0606: 1, L0661: 1, L0543: 1, L0789: 1, L0793: 1, S0216: 1, S0126: 1, S0330: 1, H0696: 1, L0777: 1, L0731: 1, S0434: 1 and L0592: 1.	L0439: 2, L0465: 2, H0586: 1, H0497: 1, H0013: 1, H0024: 1, H0124: 1, H0561: 1, L0774: 1, L0664: 1, L0438: 1, H0520: 1, H0519: 1, H0539: 1, H0631: 1, L0747: 1, S0192: 1, S0276: 1 and H0352: 1.	

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1336	HOUCY70	907030	1346	83 - 1009	2751	Asn-42 to Leu-62, Gln-96 to Lys-103, Asp-108 to Lys-117, Asn-122 to Leu-131, Met-144 to Glu-156, Glu-165 to Asp-172, Lys-191 to Glu-200, Tyr-211 to Ser-228, Gly-274 to Gly-281, Glu-302 to Gly-308.	1q21.2-q22	AR089: 9, AR061: 8, AR039: 7, AR055: 7, AR060: 7, AR096: 6, AR104: 6, AR033: 5, AR052: 5, AR053: 4 H0618: 3, L0755: 3, S0436: 3, S0356: 2, H0253: 2, H0309: 2, H0123: 2, H0553: 2, L0369: 2, L0771: 2, L0774: 2, L0806: 2, L0666: 2, L0752: 2, L0601: 2, L0603: 2, S0040: 1, H0717: 1, S0180: 1, S0442: 1, S0132: 1, H0550: 1, H0333: 1, H0574: 1, H0545: 1, H0024: 1, H0015: 1, H0016: 1, H0266: 1, S0250: 1, H0213: 1, S0364: 1, S0366: 1, H0087: 1, H0379: 1, S0438: 1, S0440: 1, H0509: 1, L0769: 1, L0662: 1, L0766: 1, L0803: 1, L0804: 1, L0375: 1, L4669: 1, L0528: 1, L0663: 1, H0670: 1, S0028: 1, L0747: 1, L0779: 1, L0777: 1, S0434: 1, S0276: 1, S0196: 1 and H0542: 1.	104770, 107670, 110700, 145001, 146760, 146790, 159440, 159440, 159440, 186780, 191030, 191315, 600923, 601412, 601652, 601863, 602491	9-31, 249-265
1337	HWAEL33	907053	1347	389 - 901	2752	Ala-67 to Glu-72, Thr-91 to Ile-100.		AR033: 7, AR089: 6, AR052: 6, AR060: 4,		136-160, 105-121,

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AR053: 4, AR096: 3,
AR104: 2, AR061: 2,
AR055: 2, AR039: 2
L0439: 13, L0740: 5,
L0659: 4, L0663: 4, L0770:
3, S0126: 3, L0747: 3,
L0750: 3, L0759: 3, H0013:
2, S0214: 2, S0440: 2,
L0774: 2, H0519: 2, S0380:
2, L0749: 2, L0755: 2,
L0731: 2, H0171: 1, H0556:
1, S0040: 1, H0583: 1,
H0656: 1, H0255: 1, S0418:
1, S0408: 1, H0637: 1,
H0733: 1, S0045: 1, T0040:
1, H0427: 1, H0599: 1,
T0082: 1, H0618: 1, T0048:
1, S0474: 1, H0581: 1,
H0052: 1, H0309: 1, L0738:
1, L0471: 1, H0014: 1,
H0594: 1, S6028: 1, S0022:
1, T0086: 1, H0124: 1,
H0090: 1, H0038: 1, H0616:
1, H0551: 1, H0412: 1,
S0150: 1, S0426: 1, L0763:
1, L0769: 1, L0638: 1,
L0772: 1, L0771: 1, L0521:
1, L0775: 1, L0806: 1,
L0805: 1, L0776: 1, L0542:
1, L0666: 1, L0664: 1,

1338	HNHCM07	907060	1348	174 - 821	2753	Lys-9 to Gly-17.	H0144: 1, L0438: 1, H0547: 1, H0521: 1, S0404: 1, S0406: 1, H0576: 1, S3014: 1, L0742: 1, L0758: 1, H0595: 1, S0436: 1, H0665: 1 and H0422: 1. AR104: 13, AR096: 9, AR033: 7, AR060: 7, AR089: 6, AR055: 6, AR052: 4, AR039: 4, AR053: 4, AR061: 3 L0070: 2, H0618: 1, H0252: 1, S0428: 1 and S0053: 1.	98-114
1339	HELGY02	907105	1349	222 - 2831	2754	Arg-30 to Ile-42, Asn-103 to Ser-117, Asn-146 to Ser-151, Lys-165 to Asn-171, Asn-177 to Tyr-191, Arg-205 to Met-210, Pro-225 to Ser-236, Pro-254 to His-259, Asp-391 to Val-396, Lys-402 to Trp-408, Lys-422 to Asp-444, Pro-494 to Glu-502, Gly-517 to Lys-528.	AR104: 1, AR089: 1, AR061: 1, AR060: 0, AR052: 0, AR039: 0, AR096: 0, AR033: 0, AR053: 0, AR055: 0	1-23, 358-374
1340	HTAFC46	907218	1350	237 - 659	2755	Met-6 to Gln-19, Phe-22 to Asn-28,	AR061: 3, AR060: 2, AR053: 1, AR089: 1,	120-141, 76-92

#	Name	ID	SEQ ID	Range	Description	Data	Chrom.		AA ranges
					Pro-30 to His-62.	AR033: 1, AR096: 0, AR055: 0, AR104: 0 H0069: 2, H0264: 2, H0253: 1, H0412: 1, H0623: 1, H0521: 1 and H0423: 1.			134-167, 184-206, 207-228, 240-267, 98-122, 63-85, 1-18, 158-174
1341	HRADL67	907233	1351	142 - 975	Val-47 to His-56, Glu-87 to Arg-94.	AR039: 51, AR053: 42, AR033: 28, AR089: 25, AR096: 25, AR104: 24, AR052: 24, AR055: 20, AR060: 20, AR061: 11 T0040: 1, H0013: 1, H0056: 1, H0435: 1, S0152: 1, H0555: 1 and L0759: 1.			183-213, 135-161, 226-250, 33-51, 107-123, 282-298, 59-75
1342	HDPQA54	907253	1352	93 - 1094	Lys-53 to Ser-58, Ala-176 to Tyr-183, Lys-215 to Gln-220, Gly-261 to Gln-267.	AR096: 3, AR060: 3, AR089: 2, AR033: 2, AR053: 1, AR061: 1, AR055: 1, AR052: 1, AR104: 0, AR039: 0 H0521: 8, H0522: 4, H0580: 2, H0586: 2, S0036: 2, H0638: 1, H0250: 1, S0003: 1, H0111: 1, S0002: 1, H0529: 1, L0794: 1, L0803: 1, L0774: 1 and L0752: 1.			
1343	HCFCS40	907375	1353	4252 - 3083	Pro-20 to Leu-30.	AR060: 241, AR033: 229, AR055: 211, AR061: 142, AR089: 103, AR053: 85, AR052: 62, AR104: 48,	3p21.3	116806, 120120, 120120, 120120	153-176, 205-229, 308-327, 34-50

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120436,
120436,
138320,
168468,
182280,
600163

AR096: 31, AR039: 25
S0474: 20, H0683: 7,
L0748: 7, H0251: 6, L0777:
5, S0422: 4, L0764: 4,
L0766: 4, L0740: 4, L0754:
4, S0418: 3, H0046: 3,
H0553: 3, H0521: 3, L0779:
3, L0752: 3, L0731: 3,
L0757: 3, H0422: 3, H0713:
2, H0717: 2, H0733: 2,
S0476: 2, H0441: 2, H0575:
2, H0428: 2, H0494: 2,
L0659: 2, L0666: 2, H0547:
2, H0519: 2, L0439: 2,
L0745: 2, L0749: 2, L0756:
2, L0758: 2, L0485: 2,
S0026: 2, S0384: 2, H0716:
1, S0212: 1, H0661: 1,
S0356: 1, S0444: 1, S0045:
1, S0046: 1, S0132: 1,
H0645: 1, H0406: 1, S6022:
1, H0431: 1, H0587: 1,
H0486: 1, T0040: 1, H0013:
1, H0069: 1, H0156: 1,
H0098: 1, H0581: 1, H0150:
1, H0024: 1, H0083: 1,
S0025: 1, H0355: 1, H0328:
1, H0031: 1, H0124: 1,
T0067: 1, H0413: 1, H0623:
1, H0560: 1, L0769: 1,

1344	HBINS69	907522	1354	1113 - 1415	2759			74-93
					Ala-32 to Gly-37.	L0667: 1, L0372: 1, L0767: 1, L0803: 1, L0804: 1, L0774: 1, L0775: 1, L0375: 1, L0784: 1, L0655: 1, L0657: 1, L0783: 1, L0647: 1, L5622: 1, L5623: 1, L0664: 1, H0697: 1, S0374: 1, H0724: 1, H0520: 1, H0435: 1, H0710: 1, H0518: 1, S0152: 1, L0751: 1, L0759: 1, S0031: 1, H0445: 1, S0434: 1, S0436: 1, S0192: 1, S0424: 1 and L0600: 1.	AR104: 8, AR033: 7, AR053: 6, AR055: 5, AR096: 5, AR039: 4, AR052: 3, AR089: 3, AR061: 2, AR060: 2, H0617: 12, L0745: 6, H0052: 5, H0521: 4, L0758: 4, L0740: 3, H0265: 2, H0556: 2, S0358: 2, H0327: 2, H0178: 2, L0766: 2, H0682: 2, L0744: 2, L0748: 2, L0439: 2, L0746: 2, L0750: 2, H0149: 1, H0663: 1, S0356: 1, H0675: 1, H0333: 1, H0581: 1, H0083: 1, H0615: 1, L0143: 1,	

#	Clone					Amino acid regions	Expression (AR)	Expression (clones)	Cytoband	OMIM	Region
1345	HKGAO47	907635	1355	214 - 1563	2760	Met-1 to Tyr-8, Glu-15 to Gly-24, Ser-64 to Glu-69, Cys-73 to Gly-79, Glu-104 to Asp-111, Asn-132 to Gln-139.	AR039: 8, AR096: 10, AR089: 5, AR052: 7, AR060: 5, AR104: 5, AR033: 5, AR053: 4, AR061: 2, AR055: 2	H0181: 1, S0036: 1, H0135: 1, H0087: 1, H0059: 1, H0494: 1, L0769: 1, L0372: 1, L0764: 1, L0648: 1, L0774: 1, L0783: 1, H0593: 1, H0660: 1, H0672: 1, S0028: 1, L0741: 1, L0751: 1, L0747: 1 and L0779: 1.			141-164, 358-377, 404-420, 422-438
1346	HMTBI19	907637	1356	1418 - 114	2761	Asp-2 to Asp-14, Ala-43 to Leu-52, Arg-111 to Thr-120, His-122 to Asn-130, Phe-168 to Ala-176, Thr-244 to Phe-249, Ser-261 to Asn-273, Glu-290 to Glu-296, Cys-303 to Lys-311, Tyr-334 to Val-339, Glu-358 to Ser-366, Ala-428 to Leu-435.	AR096: 2, AR052: 2, AR053: 2, AR089: 2, AR060: 1, AR033: 1, AR061: 1, AR104: 1, AR039: 0	L0439: 4, L0608: 3, L0667: 2, L0662: 2, L0766: 2, L0776: 2, L0518: 2, L0749: 2, L0777: 2, L0758: 2, L0362: 2, H0583: 1, S0418: 1, S0442: 1, S0358: 1, S0360: 1, H0575: 1, L0055: 1, H0032: 1, H0090: 1, H0634: 1, T0042: 1, S0426: 1, L0763: 1, L0770:	15q22.3	151670, 600374, 601780	216-232

1347	HPMGN27	907728	1357	213 - 569	2762	Val-11 to Val-16, Leu-41 to Asp-57.	1, L0372: 1, L0646: 1, L0374: 1, L0803: 1, L0806: 1, L0805: 1, L0809: 1, L0789: 1, L0666: 1, L0664: 1, L0748: 1, L0754: 1, L0731: 1, L0596: 1, H0668: 1, S0026: 1 and H0352: 1. AR055: 4, AR060: 3, AR061: 3, AR033: 3, AR089: 3, AR096: 2, AR053: 2, AR052: 2, AR104: 1, AR039: 0 L0748: 4, L0794: 2, L0659: 2, L0517: 2, H0519: 2, L0758: 2, L0021: 1, H0318: 1, H0266: 1, H0031: 1, L0564: 1, L0772: 1, L0662: 1, L0768: 1, L0803: 1, H0144: 1, S0374: 1, H0435: 1, H0666: 1, H0710: 1, L0749: 1, L0779: 1 and S0436: 1.	99-116, 23-39
1348	HWLEP57	907757	1358	205 - 549	2763	Arg-75 to Lys-86.	AR060: 3, AR039: 3, AR033: 2, AR061: 1, AR053: 1, AR089: 1, AR055: 1, AR052: 1, AR104: 1, AR096: 0 L0373: 3, L0754: 3, L0005: 2, S0354: 2, H0331:	47-71, 6-22

| 1349 | HADGF57 | 907775 | 1359 | 104 - 1303 | 2764 | 2, L0157: 2, L0646: 2, L0803: 2, L0659: 2, L0748: 2, S0436: 2, L0581: 2, H0170: 1, S0376: 1, H0574: 1, H0632: 1, H0590: 1, H0596: 1, H0046: 1, H0510: 1, S0214: 1, H0622: 1, H0644: 1, H0598: 1, S0440: 1, H0509: 1, L0598: 1, L0649: 1, S0406: 1, S0434: 1 and L0601: 1. | AR096: 1, AR053: 1, AR033: 1, AR060: 1, AR089: 0, AR039: 0, AR052: 0, AR061: 0, AR055: 0, AR104: 0 S0410: 13, L0777: 12, L0748: 9, T0060: 6, H0553: 4, H0672: 3, L0439: 3, L0749: 3, S0436: 3, S0134: 2, H0661: 2, S0376: 2, S0278: 2, H0575: 2, S0003: 2, S0022: 2, H0674: 2, S0440: 2, L0646: 2, L0662: 2, L0809: 2, L0740: 2, L0754: 2, L0755: 2, L0758: 2, S0434: 2, H0506: 2, H0716: 1, T0049: 1, H0657: 1, H0656: 1, S0358: 1, S0468: 1, H0437: 1, S6022: | 193-224, 6-31, 170-186, 145-161 |

1350	HDTIC42	907776	1360	26 - 1282	2765		
					Ala-27 to Glu-33, Asp-57 to Glu-69, Asn-134 to Thr-143, Met-185 to Arg-192, Ile-221 to Leu-234, Thr-249 to Asp-260, Ser-270 to Asp-275, Pro-366 to Gly-376.	1, H0574: 1, H0632: 1, H0250: 1, H0427: 1, S0280: 1, H0156: 1, L0021: 1, H0620: 1, H0594: 1, S0214: 1, H0622: 1, H0169: 1, H0135: 1, H0038: 1, H0634: 1, H0268: 1, H0623: 1, S0015: 1, S0438: 1, H0641: 1, H0646: 1, S0142: 1, S0344: 1, H0695: 1, L0598: 1, L0763: 1, L0769: 1, L0637: 1, L0667: 1, L0641: 1, L0764: 1, L0768: 1, L0806: 1, L0653: 1, L0655: 1, L0657: 1, L5623: 1, L0663: 1, L0665: 1, H0144: 1, H0702: 1, H0703: 1, H0519: 1, H0593: 1, S0330: 1, H0518: 1, H0521: 1, H0555: 1, L0779: 1, H0445: 1, H0543: 1 and H0423: 1.	AR033: 18, AR061: 12, AR096: 12, AR104: 11, AR089: 11, AR060: 7, AR053: 5, AR052: 4, AR055: 3, AR039: 2, L0777: 20, L0744: 15, L0748: 14, H0591: 6, L0803: 6, L0752: 6, S0358: 5, L0774: 5, L0758: 5,
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4, L0794: 4, H0521: 4,
H0170: 3, S0278: 3, H0441:
3, S0010: 3, H0644: 3,
L0769: 3, L0804: 3, L0659:
3, L0666: 3, L0747: 3,
L0756: 3, H0638: 2, S0360:
2, H0619: 2, S0388: 2,
S0051: 2, H0124: 2, S0142:
2, L0598: 2, L0800: 2,
L0764: 2, L0375: 2, L0806:
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S0052: 2, H0689: 2, H0659:
2, S0328: 2, H0522: 2,
H0552: 2, L0754: 2, L0749:
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L0588: 2, L0599: 2, L0608:
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T0049: 1, H0341: 1, H0484:
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S0418: 1, S0420: 1, S0444:
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H0580: 1, H0639: 1, S0300:
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H0574: 1, H0427: 1, H0042:
1, S0346: 1, L0105: 1,
H0318: 1, S0474: 1, H0546:
1, H0012: 1, T0003: 1,
H0051: 1, H0355: 1, H0510:
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1351	HHEXO20	907816	1361	939 - 1535	2766	H0615: 1, H0428: 1, L0483: 1, T0006: 1, H0553: 1, H0376: 1, H0400: 1, H0163: 1, H0038: 1, H0616: 1, H0551: 1, T0004: 1, T0041: 1, H0641: 1, S0144: 1, S0344: 1, S0422: 1, S0426: 1, L0763: 1, L0796: 1, L0761: 1, L0646: 1, L0662: 1, L0768: 1, L0766: 1, L0775: 1, L0651: 1, L0805: 1, L0652: 1, L0809: 1, L0788: 1, L0789: 1, L0790: 1, L0791: 1, L0792: 1, L0664: 1, H0711: 1, H0683: 1, H0648: 1, S0330: 1, H0539: 1, H0696: 1, H0555: 1, L0751: 1, L0753: 1, L0731: 1, L0759: 1, S0031: 1, L0581: 1, S0242: 1, S0276: 1 and S0460: 1. AR096: 4, AR061: 2, AR089: 2, AR053: 2, AR055: 2, AR052: 2, AR104: 2, AR060: 2, AR039: 1, AR033: 1 L0749: 4, L0805: 3, L0759: 3, L0766: 2, L0776: 2, L0659: 2, L0439: 2, L0758: 2, H0052: 1, H0050:	180-199

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1368	HUCOF58	909344	1378	2090 - 1119	2783	Pro-77 to Arg-84, Tyr-109 to Thr-114.	AR060: 2, AR033: 1, AR089: 1, AR053: 1, AR061: 1, AR096: 1, AR039: 1, AR055: 0, AR052: 0, AR104: 0 H0677: 8, L0748: 7, H0556: 6, L0769: 6, L0747: 6, H0599: 5, H0521: 5, H0135: 4, L0770: 4, L0775: 4, L0439: 4, L0759: 4, S0434: 4, S0222: 3, H0620: 3, H0617: 3, H0412: 3, L0659: 3, L0438: 3, H0547: 3, S0406: 3, L0758: 3, H0542: 3, H0265: 2, H0664: 2, S0360: 2, S0132: 2, L0471: 2, H0012: 2, S0388: 2, H0266: 2, H0087: 2, H0646: 2, L0662: 2, L0766: 2, L0352: 2, S0404: 2, L0744: 2, L0779: 2, L0757: 2, S0436: 2, L0596: 2, H0543: 2, H0423: 2, S0040: 1, H0638: 1, S0420: 1, S0354: 1, S0358: 1, S0376:	H0214: 1, S0404: 1, L0744: 1, L0740: 1, L0731: 1, L0759: 1, L0604: 1, L0595: 1, L0362: 1, H0653: 1, H0665: 1 and H0422: 1.	275-303, 177-205, 298-320, 52-71, 141-160, 252-270, 214-230, 20-36, 116-132, 89-105

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AR052: 9, AR089: 8,
AR060: 8, AR033: 7,
AR053: 6, AR096: 5,
AR039: 5, AR104: 4
L0659: 6, H0521: 4,
L0439: 4, L0745: 4, L0759:
4, H0556: 3, H0657: 3,
S0360: 3, L0761: 3, L0662:
3, L0766: 3, L0809: 3,
H0549: 2, H0392: 2, H0253:
2, H0581: 2, H0620: 2,
H0051: 2, H0551: 2, H0494:
2, L0770: 2, L0794: 2,
L0649: 2, L0665: 2, H0520:
2, S0032: 2, L0741: 2,
L0743: 2, L0748: 2, L0747:
2, L0779: 2, L0758: 2,
L0605: 2, H0650: 1, H0484:
1, H0254: 1, H0402: 1,
S0358: 1, H0580: 1, S0007:
1, S0132: 1, S0476: 1,
H0393: 1, H0369: 1, H0550:
1, H0409: 1, H0256: 1,
H0250: 1, H0042: 1, H0036:
1, H0318: 1, S0049: 1,
H0050: 1, H0014: 1, H0375:
1, S6028: 1, H0292: 1,
H0428: 1, H0622: 1, H0031:
1, H0617: 1, L0456: 1,
H0135: 1, H0040: 1, H0379:

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33, 235-
258, 113-
136, 205-
223, 269-
287, 299-
315, 165-
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1370	HHEEN22	909508	1380	1628 - 450	2785

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Pro-45 to Ile-51,
Gly-76 to His-81,
Val-102 to Asn-110,
Asp-123 to Pro-140,
Asn-196 to Leu-208,
Asp-227 to Gly-232,
Ala-343 to Thr-351,
Pro-359 to Ser-378,
Pro-384 to Ser-393.

AR089: 7, AR033: 5,
AR061: 5, AR060: 2,
AR096: 1, AR053: 1,
AR104: 0, AR052: 0,
AR055: 0
L0751: 5, S0358: 4,
L0769: 3, L0659: 3, S0356:
2, S0354: 2, S0376: 2,
H0253: 2, H0551: 2, L0771:
2, L0809: 2, L0665: 2,
H0650: 1, H0483: 1, H0255:
1, H0402: 1, S0360: 1,
L0717: 1, H0550: 1, S6014:
1, H0592: 1, H0486: 1,
H0618: 1, S0049: 1, H0178:
1, H0264: 1, H0056: 1,
H0623: 1, H0633: 1, S0002:
1, H0529: 1, L0762: 1,
L5575: 1, L0772: 1, L0646:
1, L0771: 1, L0773: 1,
L0767: 1, L0768: 1, L0803:
1, L0805: 1, L0653: 1,
L4501: 1, L0666: 1, H0689:
1, H0690: 1, H0682: 1,
H0670: 1, H0522: 1, S0044:
1, H0436: 1, S0027: 1,
L0754: 1, L0749: 1, L0753:
1, L0731: 1, S0436: 1,
H0653: 1, S0192: 1, H0542:
1, H0543: 1 and H0423: 1.

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| 1371 | H2CBH75 | 909587 | 1381 | 2304 - 1204 | 2786 | Glu-122 to Asn-129, Glu-143 to Asn-148, Lys-150 to Ala-162, Ala-202 to Arg-208, Phe-252 to Thr-260, Pro-347 to His-363. | AR052: 20, AR033: 13, AR055: 12, AR053: 12, AR089: 11, AR060: 9, AR104: 7, AR096: 7, AR061: 7, AR039: 5 L0766: 17, H0694: 14, L0758: 11, L0740: 6, L0591: 6, L0769: 5, L0773: 5, L0748: 5, L0754: 5, L0777: 5, H0575: 4, L0772: 4, L0768: 4, L0438: 4, L0747: 4, L0750: 4, L0601: 4, H0656: 3, H0013: 3, H0050: 3, H0622: 3, H0040: 3, H0529: 3, L0770: 3, L0774: 3, L0664: 3, H0144: 3, H0547: 3, H0521: 3, H0696: 3, L0749: 3, L0752: 3, L0757: 3, L0759: 3, H0556: 2, S0356: 2, H0486: 2, T0110: 2, H0572: 2, | 1, N0007: 1, L0483: 1, H0606: 1, L0639: 1, L0803: 1, L0775: 1, L0661: 1, L0657: 1, L0783: 1, H0724: 1, H0689: 1, H0522: 1, H0696: 1, L0748: 1, L0439: 1, L0750: 1, L0752: 1, H0445: 1, S0192: 1 and H0542: 1. | 18-51, 167-202, 214-245, 66-96, 304-324, 263-280 |

L0471: 2, S0250: 2, H0428: 2, H0039: 2, H0616: 2, H0561: 2, S0426: 2, L0637: 2, L0761: 2, L0803: 2, L0804: 2, L0659: 2, S0126: 2, H0659: 2, H0539: 2, S0152: 2, L0439: 2, L0755: 2, L0592: 2, L0604: 2, H0423: 2, H0624: 1, H0171: 1, S0116: 1, S0212: 1, H0402: 1, H0638: 1, S0442: 1, S0376: 1, S0444: 1, S0408: 1, L0149: 1, S0132: 1, H0619: 1, H0393: 1, S0300: 1, S6016: 1, H0600: 1, H0069: 1, H0156: 1, L0021: 1, H0318: 1, H0052: 1, H0251: 1, H0597: 1, H0327: 1, N0006: 1, H0201: 1, T0010: 1, H0510: 1, T0078: 1, H0266: 1, S0003: 1, S0214: 1, H0615: 1, H0124: 1, S0366: 1, S0036: 1, H0090: 1, H0591: 1, H0038: 1, L0060: 1, H0551: 1, H0488: 1, H0412: 1, H0056: 1, L0564: 1, T0041: 1, T0042: 1, H0538: 1, S0002: 1, L0369: 1, L0763: 1, L0638: 1, L0646: 1,

1372	HTLHU05	909665	1382	174 - 1409	2787	Thr-30 to Gly-36, Asp-44 to Asp-51, Pro-145 to Lys-151, Ala-161 to Ser-168.	L0764: 1, L0648: 1, L0662: 1, L0794: 1, L0649: 1, L0561: 1, L0775: 1, L0376: 1, L0806: 1, L0653: 1, L0655: 1, L0657: 1, L0517: 1, L0783: 1, L0647: 1, L0666: 1, L0663: 1, H0691: 1, H0519: 1, H0670: 1, H0660: 1, H0648: 1, S0406: 1, H0436: 1, H0576: 1, S0027: 1, S0206: 1, L0756: 1, L0731: 1, S0260: 1, H0444: 1, L0596: 1, L0588: 1, L0605: 1, L0608: 1, L0594: 1, S0026: 1, H0665: 1, H0667: 1, L0096: 1 and S0424: 1.	AR055: 4, AR061: 3, AR096: 3, AR052: 3, AR089: 3, AR060: 2, AR033: 2, AR053: 2, AR039: 1, AR104: 0 H0618: 64, H0253: 52, L0758: 6, L0779: 2, H0392: 1, H0038: 1, L0761: 1, L0803: 1, L0806: 1, L0807: 1 and L0697: 1.	194-210, 71-87
1373	HDPPG85	909673	1383	665 - 1102	2788	Glu-16 to Arg-23, Phe-43 to Trp-50,		AR033: 2, AR089: 1, AR096: 1, AR053: 1,	114-131, 67-83

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| 1374 | HWMIB81 | 909678 | 1384 | 51 - 572 | 2789 | Val-59 to Asp-66. | AR060: 1, AR055: 1, AR061: 1, AR039: 0, AR052: 0, AR104: 0 H0585: 6, H0255: 6, H0457: 3, H0539: 3, H0657: 2, L0622: 2, H0634: 2, H0063: 2, L0789: 2, H0436: 2, S0218: 1, H0650: 1, H0254: 1, H0592: 1, H0486: 1, H0069: 1, H0575: 1, H0327: 1, H0083: 1, H0179: 1, H0271: 1, L0055: 1, H0616: 1, T0041: 1, H0646: 1, H0695: 1, L0369: 1, L0769: 1, L0794: 1, L0766: 1, L0774: 1, L0809: 1, H0522: 1, L0779: 1, L0731: 1, H0136: 1, S0276: 1, H0543: 1, H0423: 1 and H0422: 1. | 83-100 |
| | | | | | | | AR096: 2, AR053: 2, AR039: 1, AR060: 1, AR089: 1, AR055: 1, AR061: 1, AR104: 1, AR052: 1, AR033: 1 L0748: 2, H0171: 1, S0134: 1, S0354: 1, S0358: 1, H0014: 1, H0083: 1, H0510: 1, L0764: 1, L0803: 1, L0789: 1, H0593: 1, | |

1375	HSYDI55	909692	1385	105 - 1199	2790			323-339
						Thr-26 to Glu-37, Lys-82 to Asn-92, Gly-122 to Ile-128, Glu-152 to Thr-157, Ala-159 to Arg-169, Lys-176 to Lys-181, Lys-183 to Arg-196, Ser-200 to Glu-207, Pro-256 to Ser-267, Ser-305 to Ala-310, Glu-348 to Gly-354.	AR052: 16, AR053: 9, AR033: 5, AR089: 4, AR096: 3, AR060: 3, AR104: 2, AR055: 2, AR039: 1, AR061: 1 H0651: 11, L0794: 8, H0038: 5, L0805: 4, L0758: 4, S0358: 3, S0476: 3, L0766: 3, L0803: 3, L0665: 3, H0144: 3, H0521: 3, L0748: 3, L0740: 3, L0756: 3, H0222: 2, S0420: 2, S0360: 2, H0551: 2, H0412: 2, S0440: 2, L0804: 2, L0789: 2, L0666: 2, L0747: 2, S0436: 2, L0599: 2, H0542: 2, H0223: 1, H0159: 1, H0717: 1, H0716: 1, S0282: 1, H0580: 1, S0046: 1, H0411: 1, H0486: 1, H0013: 1, H0596: 1, L0738: 1, H0544: 1, H0046: 1, L0471: 1, H0014: 1, H0083: 1, S0003: 1, H0553: 1, L0055: 1, H0124: 1, H0591: 1, H0616: 1, H0059: 1, H0494: 1, S0294: 1, H0529:	H0659: 1, H0539: 1, H0555: 1, L0751: 1, L0758: 1, L0759: 1 and L0595: 1.

1376	HHFJU87	909720	1386	110 - 1225	2791			
								292-309, 180-197, 99-115
						Ser-4 to Ser-28, Leu-37 to Glu-45, Pro-86 to Leu-94, Glu-150 to Leu-157, Leu-168 to Trp-177, Ser-242 to Ala-249, Glu-340 to Asp-348, Phe-365 to Val-371.	1, L0770: 1, L0769: 1, L0800: 1, L0644: 1, L0764: 1, L0771: 1, L0662: 1, L0364: 1, L0653: 1, L0776: 1, L0655: 1, L0659: 1, L0526: 1, L0382: 1, S0148: 1, H0693: 1, S0328: 1, S0152: 1, H0436: 1, H0631: 1, S3014: 1, S0027: 1, L0439: 1, L0749: 1, L0779: 1, L0777: 1, L0731: 1, L0757: 1, H0444: 1, H0445: 1, S0026: 1, S0242: 1, S0194: 1 and H0423: 1. AR039: 4, AR053: 2, AR033: 1, AR089: 1, AR061: 0, AR060: 0, AR096: 0, AR055: 0, AR104: 0 L0740: 10, L0747: 9, L0731: 9, S0126: 7, S0360: 5, H0623: 5, L0809: 5, L0750: 5, L0757: 4, L0471: 3, L0662: 3, L0777: 3, L0752: 3, L0759: 3, S0376: 2, H0619: 2, H0261: 2, L0021: 2, H0544: 2, H0644: 2, H0551: 2, H0413: 2, H0056: 2, H0100: 2, L0762: 2, L0769: 2, L0764: 2,	

| 1377 | HDHIB39 | 909774 | 1387 | 25 - 1038 | 2792 | Thr-2 to Arg-33, Ser-80 to Lys-85. | L0649: 2, L0659: 2, L0666: 2, L0439: 2, L0751: 2, L0749: 2, L0755: 2, L0758: 2, L0596: 2, S0242: 2, T0049: 1, S0418: 1, S0420: 1, S0356: 1, H0340: 1, S0046: 1, L0717: 1, H0369: 1, H0370: 1, H0587: 1, H0599: 1, H0052: 1, H0596: 1, T0115: 1, H0123: 1, H0051: 1, H0510: 1, H0266: 1, H0286: 1, H0328: 1, H0428: 1, H0628: 1, H0673: 1, H0169: 1, L0456: 1, T0069: 1, S0014: 1, L0763: 1, L0770: 1, L0646: 1, L0800: 1, L0794: 1, L0803: 1, L0804: 1, L0375: 1, L0806: 1, L0654: 1, L0657: 1, L0783: 1, L0792: 1, L0663: 1, S0374: 1, H0593: 1, H0435: 1, H0658: 1, H0672: 1, S0380: 1, S0146: 1, S3014: 1, S0206: 1, L0743: 1, L0744: 1, L0779: 1, H0595: 1, L0591: 1, H0653: 1, S0194: 1, S0276: 1 and H0352: 1. AR096: 2, AR052: 2, AR089: 2, AR039: 1, | 223-242 |

1378	HTXSR92	909802	1388	272 - 1360	2793	Glu-24 to Pro-34, Leu-45 to Glu-51.	AR053: 1, AR060: 1, AR061: 1, AR033: 1, AR055: 1, AR104: 1 H0571: 1, H0038: 1, S0052: 1 and S0216: 1.			91-115, 189-205, 58-74
1379	HWEAD65	909868	1389	282 - 605	2794		AR039: 2, AR060: 1, AR089: 1, AR061: 0, AR052: 0, AR096: 0, AR033: 0, AR055: 0, AR104: 0, AR053: 0 H0265: 1, H0556: 1 and H0083: 1.			64-82
							AR052: 3, AR055: 3, AR033: 3, AR104: 2, AR096: 2, AR053: 2, AR089: 2, AR061: 1, AR060: 1, AR039: 0 T0049: 2, S0046: 2, S0045: 1, H0261: 1, H0611: 1, H0601: 1, S0250: 1, L0666: 1, H0672: 1, H0522: 1, L0780: 1 and S0276: 1.			
1380	HUUAR12	909906	1390	124 - 717	2795	Glu-37 to Trp-42, Arg-64 to Lys-69.	AR033: 2, AR053: 2, AR096: 2, AR089: 2, AR052: 1, AR104: 1, AR060: 1, AR055: 1, AR061: 1, AR039: 0 L0809: 9, L0775: 3, L0758: 3, S0376: 2, L0439:	2		176-192

1381	HEMBT61	909941	1391	31 - 351	2796	Asp-83 to Asp-90.	2, L0752: 2, H0656: 1, H0661: 1, H0586: 1, H0590: 1, H0594: 1, L0769: 1, L0761: 1, L0800: 1, L0662: 1, L0766: 1, L0803: 1, L0651: 1, L0805: 1, L0659: 1, L0788: 1, L0666: 1, L0779: 1, S0434: 1 and S0276: 1. AR104: 10, AR055: 10, AR033: 10, AR060: 6, AR089: 5, AR052: 5, AR039: 5, AR061: 5, AR053: 5, AR096: 4 L0547: 2, S0046: 1, L0471: 1, L0772: 1, L0529: 1 and L0780: 1.	63-81
1382	HNTCE17	909957	1392	14 - 799	2797		AR104: 2, AR055: 2, AR052: 2, AR039: 1, AR033: 1, AR053: 1, AR089: 1, AR096: 1, AR060: 1, AR061: 1 H0618: 5, L0747: 5, L0766: 4, H0253: 3, L0794: 3, L0439: 3, S0420: 2, H0587: 2, H0333: 2, L0769: 2, L0764: 2, L0526: 2, L0438: 2, H0520: 2, H0658: 2, H0539: 2, L0731: 2,	74-91, 232-248, 16-32

| 1383 | HFFAV24 | 910038 | 1393 | 40 - 552 | 2798 | Met-1 to Glu-6, Glu-12 to Gly-17, Arg-23 to Gly-48. | L0758: 2, L0604: 2, H0265: 1, H0556: 1, H0583: 1, H0650: 1, S0212: 1, S0356: 1, H0619: 1, H0351: 1, H0441: 1, L0622: 1, L0623: 1, H0635: 1, H0036: 1, H0251: 1, H0309: 1, L0738: 1, H0051: 1, S6028: 1, L0055: 1, S0366: 1, H0038: 1, H0040: 1, H0634: 1, H0623: 1, H0561: 1, H0130: 1, H0633: 1, L0763: 1, L0772: 1, L0641: 1, L0662: 1, L0363: 1, L0649: 1, L0803: 1, L0776: 1, L0659: 1, L0635: 1, L0666: 1, L0663: 1, L0665: 1, H0144: 1, H0547: 1, H0519: 1, L0611: 1, L0779: 1, S0260: 1 and S0436: 1. | 22q13.31 | 250100, 250800, 250800 | 50-66, 125-141, 106-122 |
| | | | | | | | AR055: 13, AR061: 8, AR033: 7, AR060: 7, AR053: 6, AR052: 6, AR089: 5, AR096: 4, AR039: 2, AR104: 2, L0748: 12, L0740: 11, L0439: 9, H0052: 8, L0666: 11, 6, H0616: 5, L0776: 5, L0742: 5, L0744: 5, L0750: 5, L0601: 5, S0444: 4. | | | |

H0013: 4, L0770: 4, L0659: 4, L0809: 4, S0404: 4, L0743: 4, L0754: 4, L0747: 4, L0749: 4, L0755: 4, S0116: 3, H0457: 3, H0673: 3, L0774: 3, L0438: 3, L0758: 3, H0624: 2, T0002: 2, S0358: 2, S0410: 2, S0046: 2, H0550: 2, S0222: 2, T0040: 2, H0599: 2, H0009: 2, H0050: 2, H0038: 2, H0040: 2, H0494: 2, L0638: 2, L0639: 2, L0637: 2, L5566: 2, L0662: 2, L0364: 2, L0375: 2, H0547: 2, H0521: 2, S0044: 2, L0756: 2, L0777: 2, L0752: 2, L0731: 2, L0759: 2, L0485: 2, S0276: 2, H0170: 1, S0040: 1, H0717: 1, H0716: 1, S0134: 1, H0583: 1, H0650: 1, H0657: 1, H0341: 1, S0001: 1, H0663: 1, S0356: 1, S0408: 1, H0489: 1, H0580: 1, S0007: 1, H0619: 1, L0717: 1, H0441: 1, H0574: 1, S0010: 1, H0263: 1, H0172: 1, L0471: 1, H0024: 1, H0014: 1, H0020: 1, H0051: 1,

1384	HEOPL36	910057	1394	407 - 769	2799	Arg-25 to Gly-50, Ser-86 to Arg-91, Ala-95 to Thr-101.		22q13.31	250100, 250800, 250800	52-68

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L0774: 3, L0806: 3, H0144: 3, L0747: 3, L0749: 3, L0750: 3, H0543: 3, H0556: 2, H0341: 2, S0360: 2, S0132: 2, H0393: 2, H0574: 2, H0486: 2, H0069: 2, H0581: 2, H0009: 2, H0024: 2, S6028: 2, S0003: 2, H0031: 2, H0634: 2, H0551: 2, H0488: 2, H0412: 2, H0413: 2, S0426: 2, L0646: 2, L0653: 2, L0776: 2, L0657: 2, L4501: 2, L0663: 2, H0519: 2, S0028: 2, L0754: 2, L0756: 2, L0731: 2, S0434: 2, L0588: 2, L0591: 2, L0599: 2, S0242: 2, H0624: 1, H0170: 1, H0265: 1, S6024: 1, H0650: 1, S0212: 1, S0001: 1, H0402: 1, S0420: 1, S0408: 1, L0717: 1, H0351: 1, S0278: 1, S6022: 1, H0550: 1, H0441: 1, H0643: 1, H0331: 1, T0040: 1, H0250: 1, H0075: 1, H0427: 1, L0022: 1, H0575: 1, S0010: 1, S0346: 1, T0048: 1, H0318: 1, H0251: 1, H0596: 1, T0110: 1, H0327: 1,

1395	HUFBA64	910722	1405	554 - 1144	2810		101-132
					Ser-33 to Thr-48, Gln-50 to Met-56,	H0546: 1, H0545: 1, H0046: 1, H0123: 1, H0023: 1, H0006: 1, H0014: 1, H0200: 1, H0328: 1, H0428: 1, H0622: 1, H0119: 1, H0030: 1, H0553: 1, H0644: 1, H0032: 1, H0212: 1, S0036: 1, H0090: 1, H0038: 1, H0040: 1, H0433: 1, H0056: 1, H0059: 1, S0112: 1, L0351: 1, H0494: 1, S0015: 1, S0016: 1, H0560: 1, H0366: 1, S0440: 1, S0144: 1, S0002: 1, L0369: 1, L0763: 1, L0662: 1, L0768: 1, L0649: 1, L0527: 1, L0540: 1, L0518: 1, L0382: 1, L0809: 1, L0790: 1, L0792: 1, L0532: 1, L0666: 1, L0665: 1, S0216: 1, H0702: 1, S0374: 1, L0352: 1, H0670: 1, H0672: 1, S0330: 1, H0539: 1, S0152: 1, H0521: 1, S0146: 1, S0406: 1, H0555: 1, S0392: 1, H0478: 1, L0780: 1, L0755: 1, H0445: 1, S0436: 1 and L0581: 1. AR061: 1, AR096: 1, AR060: 1, AR104: 1,	

#	Name	Number	SEQ	Range	SEQ2	Region	Epitope data	Segments
1396	HMTAX31	910866	1406	115 - 666	2811	Ser-59 to Gly-70, Ala-72 to Gln-81, Lys-87 to Arg-101.	AR089: 1, AR033: 0, AR052: 0 L0803: 7, S0358: 3, L0774: 3, L0748: 2, S0354: 1, H0489: 1, H0549: 1, H0036: 1, H0590: 1, H0597: 1, H0510: 1, H0509: 1, L0771: 1, L0768: 1 and H0506: 1.	83-100, 167-183
1397	HSSAL39	910902	1407	97 - 465	2812	Lys-18 to Lys-30, Asp-57 to Thr-64, Arg-133 to Lys-140, Leu-150 to Ala-165.	AR096: 7, AR053: 6, AR089: 6, AR039: 6, AR052: 5, AR060: 5, AR033: 4, AR104: 3, AR061: 1, AR055: 1 L0777: 4, S0358: 2, S0126: 2, H0522: 2, S0116: 1, H0638: 1, H0443: 1, H0014: 1, H0379: 1, S0016: 1, S0374: 1, H0518: 1, H0521: 1 and L0740: 1.	90-110
1398	HE8QR01	911011	1408	45 - 599	2813	Tyr-80 to Ser-90, Gly-173 to Ser-185.	AR053: 128, AR055: 124, AR052: 116, AR089: 103, AR060: 100, AR033: 76, AR061: 75, AR096: 64, AR104: 40, AR039: 39, H0041: 1 and H0135: 1. AR039: 46, AR053: 34, AR052: 29, AR033: 26, AR055: 25, AR089: 23,	108-124, 11-28

| 1399 | HLDQK77 | 911038 | 1409 | 1941 - 2330 | 2814 | Cys-24 to Gly-29, Gly-56 to Pro-68, Arg-115 to Glu-120, Gly-125 to Gly-130. | AR096: 20, AR104: 17, AR060: 16, AR061: 16 L0776: 4, L0805: 2, H0013: 1, H0509: 1, L0794: 1, H0547: 1, H0658: 1, L0439: 1, L0751: 1, L0747: 1 and L0731: 1. | AR053: 2, AR096: 2, AR052: 2, AR039: 2, AR033: 1, AR104: 1, AR089: 1, AR061: 1, AR060: 1, AR055: 1 L0758: 12, L0662: 11, H0251: 9, L0731: 9, S0360: 5, H0013: 5, L0659: 5, L0747: 5, H0252: 4, H0328: 4, L0666: 4, L0439: 4, S0436: 4, H0135: 3, L0764: 3, L0783: 3, L0749: 3, S0358: 2, L0776: 2, L0793: 2, L0663: 2, H0651: 2, L0744: 2, L0754: 2, H0713: 1, H0716: 1, H0675: 1, H0329: 1, H0619: 1, L0717: 1, H0369: 1, H0550: 1, H0333: 1, H0632: 1, H0486: 1, T0060: 1, H0042: 1, H0575: 1, H0618: 1, H0150: 1, H0123: 1, H0050: 1, H0105: 1, T0003: 1, H0024: | 32-57, 83-99 |

1400	HTXDX21	911129	1410	79 - 1170	2815				
						Ser-236 to Asn-248, Pro-251 to Cys-259, Pro-265 to Gly-277, Pro-284 to Gly-289, Pro-295 to Ala-300, Asn-308 to Ser-316, Gly-354 to Arg-360.	AR033: 6, AR104: 11, AR055: 4, AR089: 3, AR052: 3, AR060: 3, AR061: 2, AR039: 2, AR096: 1, AR053: 1 L0439: 5, S0356: 3, H0370: 3, H0438: 3, H0052: 3, H0580: 2, H0622: 2, H0424: 2, L0438: 2, S0436: 2, H0265: 1, H0661: 1, H0638: 1, S0046: 1, H0261: 1, H0485: 1, H0427: 1, H0618: 1, H0253: 1, H0581: 1, T0103: 1, H0546: 1, H0563: 1, H0569: 1, H0172: 1, H0039: 1, H0135: 1,	1, H0510: 1, H0594: 1, H0028: 1, H0644: 1, S0364: 1, S0366: 1, H0591: 1, H0100: 1, L0763: 1, L0631: 1, L0637: 1, L0646: 1, L0641: 1, L0644: 1, L0649: 1, L0803: 1, L0775: 1, L0782: 1, L0809: 1, L0519: 1, L0665: 1, H0144: 1, H0726: 1, L0438: 1, H0684: 1, H0672: 1, S0380: 1, L0748: 1, L0759: 1, S0434: 1, L0596: 1, L0366: 1, L0600: 1 and H0352: 1.	95-123, 153-177, 66-82, 21-38, 182-198, 131-147

| 1401 | HMSHP51 | 911153 | 1411 | 101 - 1447 | 2816 | Ser-2 to Ala-10, His-108 to Lys-114, Gln-190 to Leu-199, Tyr-276 to Gln-282, Glu-308 to Lys-313, Lys-370 to Arg-376, Gln-383 to His-388, Gly-408 to Trp-417, Ser-420 to Thr-426. | AR089: 16, AR104: 15, AR096: 15, AR033: 14, AR053: 13, AR055: 11, AR060: 10, AR052: 10, AR061: 8, AR039: 5, L0758: 6, H0618: 4, L0517: 4, L0747: 4, H0038: 3, L0770: 3, L0769: 3, L0439: 3, L0749: 3, H0662: 2, H0333: 2, H0674: 2, S0002: 2, L0794: 2, L0766: 2, L0649: 2, H0144: 2, S0328: 2, S0406: 2, L0759: 2, H0556: 1, S0040: 1, H0657: 1, H0255: 1, S0360: 1, H0208: 1, H0411: 1, S0278: 1, H0549: 1, H0370: 1, L0021: 1, S0010: 1, H0052: 1, H0194: 1, H0150: 1, H0009: 1, H0178: 1, H0188: 1, H0644: 1, L0455: 1, S0036: 1, H0090: 1, H0616: 1, H0063: 1, L0351: 1, H0641: 1, S0344: 1, | H0268: 1, H0494: 1, H0646: 1, H0547: 1, H0593: 1, H0689: 1, H0660: 1, H0666: 1, H0539: 1, H0518: 1, H0521: 1, L0746: 1 and H0136: 1. | 125-141, 251-267 |

| 1402 | HJPBB56 | 778816 | 1412 | 85 - 483 | 2817 | Glu-20 to Arg-25, Phe-73 to His-79, Phe-126 to Lys-133. | S0426: 1, H0695: 1, L0506: 1, L0643: 1, L0644: 1, L0764: 1, L0662: 1, L0806: 1, L0776: 1, L0655: 1, L0634: 1, L0383: 1, L0809: 1, L0666: 1, L0663: 1, H0690: 1, H0658: 1, S0330: 1, H0555: 1, S3014: 1, L0750: 1, L0779: 1, L0777: 1, L0753: 1, L0608: 1 and L0594: 1. AR052: 85, AR053: 67, AR096: 64, AR055: 55, AR089: 48, AR104: 46, AR061: 37, AR033: 35, AR060: 35, AR039: 33 L0748: 7, L0747: 7, L0777: 7, L0731: 7, L0803: 6, S0212: 4, L0751: 4, L0754: 4, S0358: 3, L0794: 3, L0517: 3, L0809: 3, H0663: 2, S0038: 2, L0637: 2, L0771: 2, L0775: 2, L0526: 2, L0783: 2, L0790: 2, H0144: 2, L0744: 2, L0439: 2, L0752: 2, L0758: 2, L0594: 2, L0603: 2, H0624: 1, S0408: 1, H0393: 1, H0549: 1, H0333: 1, L0477: 1, S0010: 1, H0567: 1, | 105-123, 52-68 |

1403	HPWAS05	843051	1413	179 - 514	2818	1, H0011: 1, H0012: 1, H0620: 1, H0083: 1, H0099: 1, H0615: 1, H0688: 1, H0628: 1, H0135: 1, H0038: 1, H0616: 1, H0087: 1, H0264: 1, H0412: 1, H0396: 1, H0647: 1, L0770: 1, L0662: 1, L0768: 1, L0766: 1, L0804: 1, L0806: 1, L0805: 1, L0776: 1, L0657: 1, L0558: 1, L0792: 1, L0663: 1, H0520: 1, H0547: 1, H0519: 1, H0658: 1, H0670: 1, H0672: 1, S0328: 1, S0380: 1, L0779: 1, S0192: 1 and H0542: 1. AR055: 12, AR060: 8, AR061: 8, AR096: 6, AR089: 6, AR033: 6, AR053: 5, AR052: 4, AR104: 4, AR039: 4 L0749: 2, L0483: 1, S0036: 1, H0264: 1 and S0044: 1.	53-83, 16-32
1404	HUSIC81	886711	1414	71 - 724	2819	Pro-78 to Lys-83. AR039: 35, AR055: 17, AR052: 16, AR053: 16, AR089: 15, AR096: 15, AR033: 13, AR104: 11, AR060: 10, AR061: 4	115-151, 27-59, 86-107, 177-198, 1-25, 202-218

H0556: 494, H0265: 241,
H0046: 107, L0601: 101,
H0584: 98, H0521: 89,
H0543: 78, S0027: 57,
H0542: 57, L0591: 52,
S0418: 49, S3014: 48,
S0420: 46, H0559: 46,
L0593: 44, L0596: 43,
S0126: 42, H0266: 41,
S0046: 38, S0152: 37,
H0052: 36, H0617: 35,
H0056: 34, H0134: 34,
L0595: 33, S0040: 32,
S0212: 32, H0561: 32,
H0069: 31, H0286: 30,
H0585: 29, S0132: 29,
L0666: 29, H0083: 26,
H0623: 25, H0657: 24,
S0278: 24, H0575: 24,
H0341: 23, H0494: 23,
S0045: 21, L0659: 21,
H0666: 21, L0588: 21,
L0592: 21, H0090: 20,
S0344: 20, L0751: 20,
L0754: 20, S0194: 20,
H0040: 19, H0125: 18,
H0618: 18, H0318: 18,
L0663: 18, H0144: 18,
H0013: 17, S0022: 17,
H0424: 17, H0135: 17,

T0042: 17, H0658: 17,
S0011: 17, S0192: 17,
S0360: 16, T0040: 15,
H0292: 15, H0063: 15,
L0748: 15, H0136: 15,
H0167: 14, S0358: 14,
S0222: 14, H0599: 14,
H0124: 14, H0087: 14,
H0551: 14, L0775: 14,
L0664: 14, H0519: 14,
H0518: 14, S0037: 14,
H0250: 13, H0253: 13,
H0581: 13, H0457: 13,
S0028: 13, T0002: 12,
H0141: 12, H0140: 12,
T0110: 12, H0014: 12,
H0288: 12, H0628: 12,
H0412: 12, S0144: 12,
S0002: 12, L0662: 12,
L0653: 12, S0032: 12,
H0667: 12, H0370: 11,
H0290: 11, H0622: 11,
S0150: 11, H0641: 11,
H0522: 11, L0750: 11,
L0608: 11, H0665: 11,
S0424: 11, H0580: 10,
H0333: 10, S6028: 10,
H0284: 10, H0591: 10,
H0634: 10, L0744: 10,
L0757: 10, H0352: 10,

T0039: 9, L0471: 9, H0620: 9, S0036: 9, H0560: 9, H0529: 9, L0372: 9, L0665: 9, H0435: 9, L0740: 9, H0445: 9, L0597: 9, H0423: 9, H0650: 8, H0431: 8, H0586: 8, H0257: 8, H0486: 8, H0038: 8, H0616: 8, H0264: 8, H0059: 8, H0100: 8, H0625: 8, L0369: 8, L0363: 8, L0378: 8, L0382: 8, H0555: 8, H0631: 8, L0755: 8, H0624: 7, H0255: 7, H0587: 7, H0497: 7, H0492: 7, H0635: 7, S0049: 7, L0388: 7, L0774: 7, L0654: 7, L0657: 7, H0670: 7, H0660: 7, H0672: 7, L0742: 7, L0439: 7, L0747: 7, L0752: 7, L0758: 7, L0599: 7, S0342: 6, H0295: 6, H0638: 6, S0444: 6, S0468: 6, H0156: 6, T0115: 6, H0545: 6, H0123: 6, H0024: 6, H0606: 6, S0210: 6, S0426: 6, L0381: 6, L0655: 6, L0383: 6, H0520: 6, H0689: 6, H0659: 6, L0602: 6, H0214: 6, H0159: 5, T0049: 5, H0661: 5,

S0442: 5, H0619: 5, L0717: 5, S0010: 5, H0309: 5, H0544: 5, H0050: 5, H0012: 5, T0010: 5, H0594: 5, H0188: 5, H0615: 5, H0213: 5, H0553: 5, H0644: 5, H0181: 5, H0268: 5, S0038: 5, H0429: 5, H0646: 5, S0142: 5, S0208: 5, L0763: 5, L0770: 5, L0767: 5, L0565: 5, H0547: 5, H0682: 5, S0328: 5, H0627: 5, L0589: 5, H0668: 5, S0196: 5, H0422: 5, S0116: 4, H0662: 4, H0402: 4, S0356: 4, S0354: 4, S0007: 4, H0550: 4, H0441: 4, H0438: 4, H0643: 4, T0109: 4, H0075: 4, H0036: 4, S0182: 4, H0327: 4, H0546: 4, H0051: 4, H0375: 4, L0456: 4, H0647: 4, L0637: 4, L0646: 4, L0764: 4, L0648: 4, L0375: 4, L0518: 4, H0690: 4, H0436: 4, H0626: 4, L0745: 4, L0731: 4, H0171: 3, H0218: 3, S0134: 3, S0282: 3, H0664: 3, H0458: 3, S0376: 3, S0300: 3, H0261: 3, H0549: 3,

H0455: 3, T0060: 3, H0427: 3, H0042: 3, T0082: 3,
H0590: 3, S0346: 3, H0421: 3, H0196: 3, H0194: 3,
H0204: 3, H0086: 3, S0051: 3, H0510: 3, H0267: 3,
S0003: 3, H0039: 3, T0006: 3, H0032: 3, H0674: 3,
H0068: 3, H0272: 3, H0413: 3, L0564: 3, H0280: 3,
H0130: 3, S0422: 3, L0771: 3, L0768: 3, L0387: 3,
L0376: 3, L0368: 3, H0648: 3, S0330: 3, S0380: 3,
S0044: 3, S0390: 3, S0260: 3, H0444: 3, H0595: 3,
S0434: 3, L0587: 3, H0653: 3, L0600: 3, H0149: 2,
H0685: 2, H0294: 2, S0114: 2, H0583: 2, S0180: 2,
S0298: 2, H0306: 2, H0449: 2, H0459: 2, H0675: 2,
H0637: 2, H0393: 2, H0437: 2, H0592: 2, S0005: 2,
H0574: 2, H0256: 2, L0623: 2, L0586: 2, H0251: 2,
T0103: 2, H0150: 2, H0041: 2, N0006: 2, H0172: 2,
H0081: 2, H0200: 2, N0007: 2, H0071: 2, H0355: 2,

S0312: 2, S0250: 2, S0214: 2, H0328: 2, H0688: 2, L0483: 2, H0033: 2, H0031: 2, L0142: 2, L0143: 2, L0455: 2, S0366: 2, H0316: 2, H0598: 2, H0163: 2, T0067: 2, H0488: 2, L0351: 2, H0366: 2, S0440: 2, H0509: 2, H0132: 2, L0762: 2, L0769: 2, L0638: 2, L0642: 2, L0521: 2, L0766: 2, L0386: 2, L0540: 2, S0006: 2, S0374: 2, S0148: 2, H0684: 2, H0539: 2, S0146: 2, H0576: 2, S0392: 2, S0206: 2, L0741: 2, L0777: 2, L0753: 2, L0759: 2, S0436: 2, L0605: 2, L0590: 2, L0604: 2, L0362: 2, L0366: 2, H0216: 2, H0170: 1, H0395: 1, H0219: 1, H0224: 1, H0225: 1, H0161: 1, H0220: 1, H0158: 1, H0222: 1, H0686: 1, S6024: 1, L0002: 1, H0656: 1, L0785: 1, H0419: 1, S0001: 1, H0254: 1, H0671: 1, H0176: 1, H0305: 1, S0348: 1, L0005: 1, S0408: 1, S0410: 1, T0008: 1,

L0428: 1, H0722: 1, H0208: 1, H0645: 1, S6026: 1, H0351: 1, H0411: 1, L0394: 1, S0220: 1, H0392: 1, H0357: 1, H0409: 1, H0403: 1, H0282: 1, H0600: 1, H0362: 1, H0331: 1, H0491: 1, H0485: 1, H0270: 1, T0112: 1, H0122: 1, H0004: 1, H0390: 1, T0048: 1, H0505: 1, H0085: 1, H0183: 1, H0205: 1, H0596: 1, H0597: 1, H0231: 1, H0121: 1, H0439: 1, L0041: 1, H0009: 1, N0003: 1, S0050: 1, L0163: 1, S0388: 1, H0275: 1, H0399: 1, H0354: 1, H0271: 1, H0416: 1, S0318: 1, S0316: 1, H0428: 1, T0023: 1, H0604: 1, H0180: 1, H0182: 1, L0055: 1, H0165: 1, H0166: 1, H0673: 1, H0361: 1, H0189: 1, H0400: 1, H0379: 1, H0477: 1, H0433: 1, H0269: 1, H0022: 1, T0041: 1, L0475: 1, S0382: 1, S0464: 1, S0306: 1, H0131: 1, H0633: 1, H0026: 1, L0640: 1, L0371: 1, L0667: 1,

| 1405 | HUCPE29 | 897919 | 1415 | 38-823 | 2820 | Gln-26 to Ala-39, Cys-48 to His-55, Pro-79 to Arg-87, Ala-124 to Pro-130, Leu-220 to Gly-225. | L0772: 1, L0373: 1, L0374: 1, L0765: 1, L0773: 1, L0561: 1, L0650: 1, L0651: 1, L0776: 1, L0606: 1, L0661: 1, L0629: 1, L0628: 1, L0527: 1, L0636: 1, L0542: 1, L0526: 1, L0783: 1, L0809: 1, S0052: 1, S0428: 1, H0683: 1, H0710: 1, H0187: 1, H0478: 1, L0609: 1, L0612: 1, L0780: 1, S0394: 1, L0485: 1, L0581: 1, L0361: 1, H0217: 1, S0242: 1, S0276: 1, S0042: 1, S0384: 1 and H0506: 1. AR096: 1, AR104: 1, AR060: 1, AR089: 1, AR055: 1, AR033: 1, AR039: 0, AR061: 0, AR053: 0, AR052: 0 H0081: 2, S0192: 2, H0717: 1 and S0420: 1. | 193-220, 1-17, 139-155 |

[0056]   The first column in Table 1 provides the gene number in the application corresponding to the clone identifier. The second column in Table 1 provides a unique "Clone ID NO:Z" for a cDNA clone related to each contig sequence disclosed in Table 1. This clone ID references the cDNA clone which contains at least the 5' most sequence of the assembled contig and at least a portion of SEQ ID NO:X was determined by directly sequencing the referenced clone. The reference clone may have more sequence than described in the sequence listing or the clone may have less. In the vast majority of cases, however, the clone is believed to encode a full-length polypeptide. In the case where a clone is not full-length, a full-length cDNA can be obtained by methods described elsewhere herein.

[0057]   The third column in Table 1 provides a unique "Contig ID" identification for each contig sequence. The fourth column provides the "SEQ ID NO:" identifier for each of the contig polynucleotide sequences disclosed in Table 1. The fifth column, "ORF (From-To)", provides the location (i.e., nucleotide position numbers) within the polynucleotide sequence "SEQ ID NO:X" that delineate the preferred open reading frame (ORF) shown in the sequence listing and referenced in Table 1, column 6, as SEQ ID NO:Y. Where the nucleotide position number "To" is lower than the nucleotide position number "From", the preferred ORF is the reverse complement of the referenced polynucleotide sequence.

[0058]   The sixth column in Table 1 provides the corresponding SEQ ID NO:Y for the polypeptide sequence encoded by the preferred ORF delineated in column 5. In one embodiment, the invention provides an amino acid sequence comprising, or alternatively consisting of, a polypeptide encoded by the portion of SEQ ID NO:X delineated by "ORF (From-To)". Also provided are polynucleotides encoding such amino acid sequences and the complementary strand thereto.

[0059]   Column 7 in Table 1 lists residues comprising epitopes contained in the polypeptides encoded by the preferred ORF (SEQ ID NO:Y), as predicted using the algorithm of Jameson and Wolf, (1988) Comp. Appl. Biosci. 4:181-186. The Jameson-Wolf antigenic analysis was performed using the computer program PROTEAN (Version 3.11 for the Power MacIntosh, DNASTAR, Inc., 1228 South Park Street Madison, WI). In specific embodiments, polypeptides of the invention comprise, or alternatively consist of, at least one, two, three, four, five or more of the predicted epitopes as described in Table

1. It will be appreciated that depending on the analytical criteria used to predict antigenic determinants, the exact address of the determinant may vary slightly.

[0060]   Column 8 in Table 1 provides an expression profile and library code: count for each of the contig sequences (SEQ ID NO:X) disclosed in Table 1, which can routinely be combined with the information provided in Table 4 and used to determine the tissues, cells, and/or cell line libraries which predominantly express the polynucleotides of the invention. The first number in column 8 (preceding the colon), represents the tissue/cell source identifier code corresponding to the code and description provided in Table 4. For those identifier codes in which the first two letters are not "AR", the second number in column 8 (following the colon) represents the number of times a sequence corresponding to the reference polynucleotide sequence was identified in the tissue/cell source. Those tissue/cell source identifier codes in which the first two letters are "AR" designate information generated using DNA array technology. Utilizing this technology, cDNAs were amplified by PCR and then transferred, in duplicate, onto the array. Gene expression was assayed through hybridization of first strand cDNA probes to the DNA array. cDNA probes were generated from total RNA extracted from a variety of different tissues and cell lines. Probe synthesis was performed in the presence of ^{33}P dCTP, using oligo(dT) to prime reverse transcription. After hybridization, high stringency washing conditions were employed to remove non-specific hybrids from the array. The remaining signal, emanating from each gene target, was measured using a Phosphorimager. Gene expression was reported as Phosphor Stimulating Luminescence (PSL) which reflects the level of phosphor signal generated from the probe hybridized to each of the gene targets represented on the array. A local background signal subtraction was performed before the total signal generated from each array was used to normalize gene expression between the different hybridizations. The value presented after "[array code]:" represents the mean of the duplicate values, following background subtraction and probe normalization. One of skill in the art could routinely use this information to identify normal and/or diseased tissue(s) which show a predominant expression pattern of the corresponding polynucleotide of the invention or to identify polynucleotides which show predominant and/or specific tissue and/or cell expression.

[0061]   Column 9 in Table 1 provides a chromosomal map location for certain polynucleotides of the invention. Chromosomal location was determined by finding exact

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matches to EST and cDNA sequences contained in the NCBI (National Center for Biotechnology Information) UniGene database. Each sequence in the UniGene database is assigned to a "cluster"; all of the ESTs, cDNAs, and STSs in a cluster are believed to be derived from a single gene. Chromosomal mapping data is often available for one or more sequence(s) in a UniGene cluster; this data (if consistent) is then applied to the cluster as a whole. Thus, it is possible to infer the chromosomal location of a new polynucleotide sequence by determining its identity with a mapped UniGene cluster.

[0062]   A modified version of the computer program BLASTN (Altshul et al., J. Mol. Biol. 215:403-410 (1990); and Gish and States, Nat. Genet. 3:266-272 (1993)) was used to search the UniGene database for EST or cDNA sequences that contain exact or near-exact matches to a polynucleotide sequence of the invention (the 'Query'). A sequence from the UniGene database (the 'Subject') was said to be an exact match if it contained a segment of 50 nucleotides in length such that 48 of those nucleotides were in the same order as found in the Query sequence. If all of the matches that met this criteria were in the same UniGene cluster, and mapping data was available for this cluster, it is indicated in Table 1 under the heading "Cytologic Band". Where a cluster had been further localized to a distinct cytologic band, that band is disclosed; where no banding information was available, but the gene had been localized to a single chromosome, the chromosome is disclosed.

[0001]   Once a presumptive chromosomal location was determined for a polynucleotide of the invention, an associated disease locus was identified by comparison with a database of diseases which have been experimentally associated with genetic loci. The database used was the Morbid Map, derived from OMIM™ (supra). If the putative chromosomal location of a polynucleotide of the invention (Query sequence) was associated with a disease in the Morbid Map database, an OMIM reference identification number was noted in column 10, Table 1, labelled "OMIM Disease Reference(s)". Table 5 is a key to the OMIM reference identification numbers (column 1), and provides a description of the associated disease in Column 2.

TABLE 2

Clone ID NO:Z	Contig ID:	SEQ ID NO:X	Analysis Method	PFam/NR Description	PFam/NR Accession Number	Score/Percent Identity	NT From	NT To
HLTDP38	465120	14	blastx.2	(AF090930) PRO0478 [Homo sapiens]	gb|AAF24045.1|AF09 0930 1	78%	117	7
HMAGF64	562775	43	blastx.2	AmpG-signal transducer [Escherichia coli]	emb|CAA57653.1|	98% 100% 91% 26%	482 3 280 358	1027 296 489 516
HLHSC60	638175	82	blastx.2	PRO2730.	sp|AAG35553|AAG35 553	99%	351	722
H6ESA95	638229	83	blastx.2	CDNA FLJ11773 fis, clone HEMBA1005852.	sp|BAB13907|BAB13 907	89%	322	783
HKMAA36	638339	84	blastx.2	(AF065388) tetraspan NET-1 [Homo sapiens]	gb|AAC17119.1|	81%	169	888
HISBE12	645267	86	blastx.2	(AL136944) hypothetical protein [Homo sapiens]	emb|CAB66878.1|	92%	15	1193
HEBAE43	645268	87	blastx	(AF161509) HSPC160 [Homo sapiens]	gb|AAF29124.1|AF16 1509 1	100%	62	520
HAIDX85	672653	107	blastx.2	CDNA: FLJ23091 fis, clone LNG07220.	sp|BAB15540|BAB15 540	96%	954	1802
HLJDK82	678819	111	blastx.2	GK001.	sp|Q9NRG3|Q9NRG3	99%	238	1683
HMCFA76	684293	114	blastx.2	Hypothetical 13.0 kDa protein.	sp|AAG29199|AAG29 199	41%	112	447
HTHCM28	684309	115	blastx.2	(AJ223830) ARE1 [Rattus norvegicus]	emb|CAA11566.1|	97%	7	1392
HCE1U38	685495	119	blastx.2	(AL136617) hypothetical protein [Homo sapiens]	emb|CAB66552.1|	99%	24	1067

HE8EQ09	695741	125	blastx.2	(AL049929) hypothetical protein [Homo sapiens]	emb|CAB43210.1|	99%	195	1184
HMEIU36	708053	135	blastx.2	TUMOR SUPPRESSOR (LUCA-1).	sp|Q12794|Q12794	45% 53%	153 561	533 605
HDFAB91	731889	173	blastx.2	(AF184227) tty [Drosophila melanogaster]	gb|AAD55738.1|AF18 4227_1	28% 36%	339 268	953 357
HSDJN50	740786	187	blastx.2	Cation efflux system protein CzcD. [Escherichia coli]	dbj|BAA35414.1|	100%	2348	1410
HSRFP52	745408	202	blastx.2	STRABISMUS.	sp|O45030|O45030	48% 34% 31%	479 58 58	1276 468 327
HE8NL29	750243	207	HMMER 1.8	PFAM: RNA recognition motif (aka RRM, RBD, or RNP domain)	PF00076	5.51	460	531
HHGBS74	753235	215	blastx.2	coded for by C. elegans cDNA yk34b1.5; coded for by C. elegans 1 1 coded for by C. elegans cDNA yk46e8.3; coded fo	gb|AAB00699.1|	51% 50% 80% 88% 71%	322 1057 1581 1539 263	1449 1554 1658 1589 325
HTAAT39	753289	216	blastx.2	CD84 [Homo sapiens]	gb|AAD04232.1|	34% 36%	408 179	884 409
HMGBP83	759888	227	blastx.2	ZINC TRANSPORTER LIKE 2.	sp|Q9JKN1|Q9JKN1	94%	162	1289
HTEIA85	778081	264	blastx.2	hypothetical protein [Arabidopsis thaliana]	emb|CAB10408.1|	45% 29%	653 23	1582 373
HSHBF13	778087	265	blastx	Similarity to Yeast E1-E2 ATPase YEL031W (SW:YED1_YEAST); cDNA 1 1 EMBL:D37288	emb|CAB05683.1|	63% 33% 88%	66 309 9	344 683 110

			comes from this gene; cDNA EST EMBL				
HFXGI63	799513	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp|BAB15071|BAB15071	71% 82%	2424 2510	2212 2424
HSLDO85	801935	blastx.2	HSPC171.	sp|Q9NZZ7|Q9NZZ7	78% 96%	100 437	486 514
HLKDC74	812760	blastx.2	(AF117297) TNF receptor superfamily activation-inducible protein [Homo sapiens]	gb|AAD19694.1|	95%	195	932
HWLIX39	815669	blastx.2	PUTATIVE FATTY ACID DESATURASE MLD.	sp|O15121|O15121	64%	84	1025
HMIAN37	828988	blastx	Similarity to Yeast MSP1 protein (TAT-binding homolog 4) (SW:MSP1_YEAST) [Caenorhabditis elegans]	gnl|PID|e1347884	79% 53% 23% 38% 25%	412 742 91 337 247	729 1005 246 390 366
HPFDI25	829071	blastx.2	CDNA FLJ20533 FIS, CLONE KAT10931.	sp|Q9NWY5|Q9NWY5	98%	380	862
HFKEH50	833067	blastx.2	(AK000833) unnamed protein product [Homo sapiens]	dbj|BAA91394.1|	98% 96%	356 198	1603 377
HELHM15	834810	blastx.2	CDNA FLJ12133 fis, clone MAMMA1000278.	sp|BAB13983|BAB13983	97% 97% 100%	834 1361 1072	394 1068 827
HTEJP13	834931	blastx.2	R27328 2.	sp|O75295|O75295	93%	23	268
HBJNB08	836997	blastx.2	T10O22.22.	sp|Q9LM25|Q9LM25	34%	118	921
HTJMQ74	838145	blastx.2	(AK000996) unnamed protein product [Homo sapiens]	dbj|BAA91458.1|	100%	220	1044

						%		
HOHCE56	838619	424	blastx.2	(AF177203) cerebral cell adhesion molecule [Homo sapiens]	gb|AAD51367.1|AF177203_1	98% 95% 100% 95%	517 335 273 1754	1761 541 344 1819
HSLEK65	839237	428	blastx.2	Arginine transport system protein ArtQ. [Escherichia coli]	dbj|BAA35576.1|	99%	17	730
HWGAF42	839272	429	blastx.2	(AJ245820) type I transmembrane receptor [Homo sapiens]	emb|CAB57950.1|	99% 94% 32% 35% 34% 31% 23%	8 336 11 89 110 83 12	367 650 298 382 271 271 287
HCRBB73	844034	450	blastx.2	CG8311 PROTEIN.	sp|Q9V7R7|Q9V7R7	42%	466	1209
HWHHU11	844529	451	blastx.2	(AJ243649) putative metal transporter [Homo sapiens]	emb|CAB59979.1|	90% 93% 100%	85 597 569	624 1058 625
HLWAR77	847144	458	blastx.2	(AF119815) G-protein-coupled receptor [Homo sapiens]	gb|AAD22047.1|	99%	2	997
HCE2W33	847388	459	blastx.2	CDNA: FLJ21676 fis, clone COL09164.	sp|BAB15113|BAB15113	84% 100%	915 772	1820 1080
HSOAC39	847431	460	blastx.2	predicted using Genefinder; Similarity to Mouse FK506-binding protein (SW:FKB3_MOUSE) [Caenorhabditis elegans]	emb|CAA92994.1|	45%	170	511
HHEVC06	851355	490	blastx.2	pva1 [Plasmodium vivax]	emb|CAA63219.1|	49% 60%	560 804	784 893

HDPBI36	852845	499	blastx.2	hypothetical protein DKFZp564J0863.1 - human (fragment)	pir|T17320|T17320	81% 92%	26 529	541 612
HCFNG65	853186	504	blastx.2	(AK001882) unnamed protein product [Homo sapiens]	dbj|BAA91959.1|	98%	30	908
HTOHA37	856923	530	blastx.2	(AF132951) CGI-17 protein [Homo sapiens]	gb|AAD27726.1|AF132951_1	98%	9	881
HDPFH27	859875	597	blastx.2	APOPTOSIS-INDUCING FACTOR AIF.	sp|O95831|O95831	100%	95	1933
HAMGP34	861668	620	blastx.2	(AF065389) tetraspan NET-4 [Homo sapiens]	gb|AAC17120.1|	43%	17	736
HNECI74	862042	624	blastx.2	PRO1902.	sp|Q9UHT1|Q9UHT1	63%	248	394
HHFMA59	862567	633	blastx.2	(AF126024) stromal cell protein isoform [Homo sapiens]	gb|AAF17233.1|AF126024_1	71%	249	749
HCE3X63	862807	636	blastx.2	Similar to D.melanogaster cadherin-related tumor suppressor [Homo sapiens]	dbj|BAA13407.1|	98% 96% 36%	314 243 226	2422 317 324
HCE2K01	862851	637	blastx.2	NEURAL MEMBRANE PROTEIN 35.	sp|O88407|O88407	89% 95%	103 599	603 1051
HBXGQ49	863848	652	blastx.2	(AK001692) unnamed protein product [Homo sapiens]	dbj|BAA91840.1|	48%	138	1565
HCECL08	863887	653	blastx.2	(AB025904) carbonic anhydrase 14 [Homo sapiens]	dbj|BAA85002.1|	99% 98%	207 699	704 992
HEMET46	863977	656	blastx.2	(AF060883) endomucin [Mus musculus]	gb|AAD05208.1|	37%	201	983
HCEVF41	866297	688	blastx.2	(AJ245937) glucose	emb|CAB75702.1|	95%	109	1071

			transporter [Homo sapiens]		90% 52% 32%	53 963 616	112 1112 888
HSSKF43	866388	blastx.2	(AB028127) mannosyltransferase [Homo sapiens]	dbj|BAB18567.1|	93% 100% 75%	55 732 2	744 977 112
HKATA81	867546	blastx	(AF161512) HSPC163 [Homo sapiens]	gb|AAF29127.1|AF16 1512_1	100%	51	467
HDPMO69	868484	blastx	(AK002135) unnamed protein product [Homo sapiens]	dbj|BAA92099.1|	100%	120	941
HFTCV95	869639	blastx.2	(AF151821) CGI-63 protein [Homo sapiens]	gb|AAD34058.1|AF15 1821_1	97%	38	1156
HTLEI29	870142	blastx.2	(AC005622) R30953_1 [Homo sapiens]	gb|AAC34467.1|	100% 66%	106 1235	1239 1351
HSRAV54	871264	blastx.2	PRO2550.	sp|AAG35515|AAG35 515	70%	1626	1327
HHEOI72	871663	blastx	ZC513.5 gene product [Caenorhabditis elegans]	gb|AAC48267.1|	34% 46% 42% 62%	396 861 1083 1401	824 1118 1373 1472
HDABD89	872527	blastx	(AF131781) Unknown [Homo sapiens]	gb|AAD20044.1|	99%	345	1514
HHFJG66	873355	blastx.2	(AC006955) hypothetical protein [Arabidopsis thaliana]	gb|AAD22340.1|AC00 6955_26	34% 39% 17%	1475 1013 804	2494 1774 920
HTTEL61	873679	blastx.2	(AL137200) hypothetical protein [Homo sapiens]	emb|CAB69910.1|	66%	364	762
HHEVQ56	874064	blastx.2	(AC009322) Unknown protein [Arabidopsis	gb|AAD55479.1|AC00 9322_19	36% 50%	313 203	624 298

HSLJR04	874369	845	blastx.2	thaliana] Cell division protein FtsK. [Escherichia coli]	dbj|BAA35615.1|	93%	368	18
						95%	1787	1473
						86%	864	568
						100%	595	344
						65%	1476	1147
						100%	1031	867
						93%	1165	1031
						96%	1887	1789
						90%	1346	1221
						45%	840	586
						51%	173	36
						40%	846	565
						51%	858	742
						25%	951	610
						60%	858	775
						27%	499	296
						45%	1022	861
						44%	971	870
						36%	1034	870
						27%	583	326
						25%	493	326
						34%	1019	897
						34%	670	404
						36%	493	410
						30%	849	745
						29%	855	757
HFATS83	875269	863	blastx.2	put. Cyt repressor (aa 1-341) [Escherichia coli]	emb|CAA27318.1|	94%	93	467
HWLMC49	875704	875	blastx.2	(AK000820) unnamed protein product [Homo	dbj|BAA91388.1|	80%	176	550

HDABK73	876546	blastx.2	sapiens] zinc finger protein - Arabidopsis thaliana	pir|T46147|T46147	32% 26% 31%	403 1207 1540	936 1509 1662
HWAHE17	879774	blastx.2	Small rec.	sp|AAF43032|AAF43 032	46% 73%	259 612	609 656
HWAEG32	879900	blastx	Hypothetical protein in pth-prsA intergenic region . [Escherichia coli]	dbj|BAA36064.1|	100% 97%	3 371	368 472
HSDFD90	880039	blastx	Na+/H+ antiporter protein nhaB [Escherichia coli]	dbj|BAA36033.1|	98% 100% 88%	67 3 47	723 44 73
HHENP77	880178	blastx.2	Hypothetical 79.4 kDa protein.	sp|CAC09450|CAC09 450	100%	770	2893
HNFIB27	880254	blastx.2	B0034.3 gene product [Caenorhabditis elegans]	gb|AAC38816.1|	26% 26% 46%	156 1065 77	1004 1529 115
HNSMB73	883132	blastx.2	19.5 protein [Mus musculus]	gb|AAA37113.1|	36% 45%	7 368	375 592
HEEAX26	883176	blastx.2	(AX058090) unnamed protein product [Homo sapiens]	emb|CAC22478.1|	99% 100% 42%	281 1067 1566	1069 1666 1622
HISBV17	883238	blastx.2	transporter protein [Homo sapiens]	gb|AAB47236.1|	46%	1	525
H2CBE07	883335	blastx.2	PEPTIDE/HISTIDINE TRANSPORTER.	sp|O09014|O09014	87% 88%	598 305	1314 592
HTOAW80	883376	blastx.2	putative [Caenorhabditis elegans]	gb|AAA27934.1|	28%	363	1385
HELFG05	883434	blastx.2	(AK001914) unnamed protein product [Homo	dbj|BAA91975.1|	98%	3587	2331

			sapiens]				
HSLEN72	1126	blastx.2	probable membrane protein b0847 - Escherichia coli	pir|G64822|G64822	89% 100%	67 2	435 67
HHFJI87	888142	blastx.2	(AK000224) unnamed protein product [Homo sapiens]	dbj|BAA91020.1|	44%	306	923
HOUGB95	888279	blastx.2	WUGSC:H_DJ0593H12.2 PROTEIN.	sp|O95003|O95003	100%	73	795
HSLKC45	889371	blastx.2	(AF093673) layilin [Cricetulus griseus]	gb|AAC68695.1|	84% 57%	124 1204	1239 1245
HSLFZ79	892016	blastx.2	ORF_f447 [Escherichia coli]	gb|AAA97114.1|	100%	173	1513
HDQGN46	892018	blastx.2	OX2 receptor precursor.	sp|AAF98555|AAF98 555	58% 38%	400 -265	1323 381
HPIAN49	892164	blastx.2	probable membrane protein b0847 - Escherichia coli	pir|G64822|G64822	100%	1	1251
HLQFF81	893535	blastx.2	(AB015192) 50 kD glycoprotein (Rh50) [Mus musculus]	dbj|BAA32441.1|	55% 50%	3 695	374 730
HTPGG10	895024	blastx.2	(AF072128) claudin-2 [Mus musculus]	gb|AAC27079.1|	83%	192	530
HKAHR43	895539	blastx	(AF128113) prominin-like protein [Mus musculus]	gb|AAD22488.1|AF12 8113 1	72%	1830	2606
HWHGQ46	895880	blastx.2	CGI-78 PROTEIN.	sp|Q9Y386|Q9Y386	100% 88% 76%	514 1161 1214	1161 1214 1264
HJPAZ12	896370	blastx	RP140-upstream [Drosophila melanogaster]	gb|AAD40352.2|	32%	329	898
HPTVU91	896517	blastx	(AB012692) CAC-1 [Homo sapiens]	dbj|BAA87335.1|	62% 39%	411 606	340 469

HETJW92	896874	1232	blastx.2	MAL protein [Homo sapiens]	gb|AAA36196.1|	40%	37	429
HTTBH18	897055	1235	blastx	one short region of weak similarity to S. cerevisiae protease A 1 1 [Caenorhabditis elegans]	gb|AAC69037.1|	50% 43% 43% 38%	1050 239 570 713	1295 307 638 790
HSLAS08	897262	1237	blastx.2	(AE000294) regulator of length of O-antigen component of lipopolysaccharide chains [Escherichia coli]	gb|AAC75088.1|	100%	16	975
HTLJA52	897328	1238	blastx	lysozyme (EC 3.2.1.17) - bare-faced crassow	pir|JE0185|JE0185	64% 48%	199 415	402 582
HEBFI34	897852	1240	blastx.2	(AF242523) hypothetical transmembrane protein SBBI53 [Homo sapiens]	gb|AAF99603.1|AF24 2523_1	89%	1140	424
HHFJV91	898152	1250	blastx.2	(AK024046) unnamed protein product [Homo sapiens]	dbj|BAB14797.1|	91%	2	502
HABAD39	898401	1253	blastx	signal recognition particle receptor beta subunit [Mus musculus]	gb|AAA69976.1|	86%	90	848
HSUMA53	898943	1259	blastx.2	weak similarity to C. elegans predicted protein C33G8.2 [Caenorhabditis elegans]	gb|AAB00721.1|	36%	367	843
HHFNI70	899099	1260	blastx	glycoprotein CD44 [Rattus norvegicus]	gb|AAA53532.1|	30% 37%	177 408	422 551
HAHCK43	901386	1275	blastx.2	(AB028228) ZCF61 [Arabidopsis thaliana]	dbj|BAA87953.1|	30%	7	516

HHEPR52	904360	1299	blastx	(AF151020) HSPC186 [Homo sapiens]	gb|AAF36106.1|AF15 1020_1	97%	146	568
HEOPR46	904471	1302	blastx.2	SERPENTINE RECEPTOR.	sp|Q9QZT2|Q9QZT2	39%	62	547
HTLIT05	904861	1306	blastx	(AB029334) HrPET-1 [Halocynthia roretzi]	dbj|BAA81907.1|	41% 42%	171 672	704 998
HSKAS66	905017	1310	blastx	(AF004876) 54TMp [Homo sapiens]	gb|AAD01206.1|	66% 50%	277 160	648 231
HLTAG56	905871	1324	blastx	(AK000922) unnamed protein product [Homo sapiens]	dbj|BAA91427.1|	59% 68% 71% 34%	136 1228 910 1136	834 1560 1137 1231
HWLCJ12	906285	1330	blastx.2	ZZ:beta-Gal' IgG-binding fusion protein [unidentified cloning 1	gb|AAB00807.1|	88%	2056	2235
HTHCK88	906306	1331	blastx	(AK001651) unnamed protein product [Homo sapiens]	dbj|BAA91811.1|	100% 99% 98%	457 1327 299	1272 1731 454
HELGY02	907105	1349	blastx.2	Similar to sulfatase [Caenorhabditis elegans]	gb|AAA83618.1|	50% 59%	354 2379	1655 2687
HIBCH43	910448	1398	blastx.2	(AK000373) unnamed protein product [Homo sapiens]	dbj|BAA91121.1|	98%	113	1225

[0002]   Table 2 further characterizes certain encoded polypeptides of the invention, by providing the results of comparisons to protein and protein family databases. The first column provides a unique clone identifier, "Clone ID NO:", corresponding to a cDNA clone disclosed in Table 1. The second column provides the unique contig identifier, "Contig ID:" which allows correlation with the information in Table 1. The third column provides the sequence identifier, "SEQ ID NO:", for the contig polynucleotide sequences. The fourth column provides the analysis method by which the homology/identity disclosed in the Table was determined. The fifth column provides a description of the PFAM/NR hit identified by each analysis. Column six provides the accession number of the PFAM/NR hit disclosed in the fifth column. Column seven, score/percent identity, provides a quality score or the percent identity, of the hit disclosed in column five. Comparisons were made between polypeptides encoded by polynucleotides of the invention and a non-redundant protein database (herein referred to as "NR"), or a database of protein families (herein referred to as "PFAM"), as described below.

[0003]   The NR database, which comprises the NBRF PIR database, the NCBI GenPept database, and the SIB SwissProt and TrEMBL databases, was made non-redundant using the computer program nrdb2 (Warren Gish, Washington University in Saint Louis). Each of the polynucleotides shown in Table 1, column 3 (e.g., SEQ ID NO:X or the 'Query' sequence) was used to search against the NR database. The computer program BLASTX was used to compare a 6-frame translation of the Query sequence to the NR database (for information about the BLASTX algorithm please see Altshul et al., J. Mol. Biol. 215:403-410 (1990); and Gish and States, Nat. Genet. 3:266-272 (1993). A description of the sequence that is most similar to the Query sequence (the highest scoring 'Subject') is shown in column five of Table 2 and the database accession number for that sequence is provided in column six. The highest scoring 'Subject' is reported in Table 2 if (a) the estimated probability that the match occurred by chance alone is less than 1.0e-07, and (b) the match was not to a known repetitive element. BLASTX returns alignments of short polypeptide segments of the Query and Subject sequences which share a high degree of similarity; these segments are known as High-Scoring Segment Pairs or HSPs. Table 2 reports the degree of similarity between the Query and the Subject for each HSP as a percent identity in Column 7. The percent identity is determined by dividing the number of exact matches between the two aligned sequences in the HSP, dividing by the number

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of Query amino acids in the HSP and multiplying by 100. The polynucleotides of SEQ ID NO:X which encode the polypeptide sequence that generates an HSP are delineated by columns 8 and 9 of Table 2.

[0004]   The PFAM database, PFAM version 2.1, (Sonnhammer et al., Nucl. Acids Res., 26:320-322, 1998)) consists of a series of multiple sequence alignments; one alignment for each protein family. Each multiple sequence alignment is converted into a probability model called a Hidden Markov Model, or HMM, that represents the position-specific variation among the sequences that make up the multiple sequence alignment (see, e.g., Durbin et al., *Biological sequence analysis: probabilistic models of proteins and nucleic acids*, Cambridge University Press, 1998 for the theory of HMMs). The program HMMER version 1.8 (Sean Eddy, Washington University in Saint Louis) was used to compare the predicted protein sequence for each Query sequence (SEQ ID NO:Y in Table 1) to each of the HMMs derived from PFAM version 2.1. A HMM derived from PFAM version 2.1 was said to be a significant match to a polypeptide of the invention if the score returned by HMMER 1.8 was greater than 0.8 times the HMMER 1.8 score obtained with the most distantly related known member of that protein family. The description of the PFAM family which shares a significant match with a polypeptide of the invention is listed in column 5 of Table 2, and the database accession number of the PFAM hit is provided in column 6. Column 7 provides the score returned by HMMER version 1.8 for the alignment. Columns 8 and 9 delineate the polynucleotides of SEQ ID NO:X which encode the polypeptide sequence which show a significant match to a PFAM protein family.

[0005]   As mentioned, columns 8 and 9 in Table 2, "NT From" and "NT To", delineate the polynucleotides of "SEQ ID NO:X" that encode a polypeptide having a significant match to the PFAM/NR database as disclosed in the fifth column. In one embodiment, the invention provides a protein comprising, or alternatively consisting of, a polypeptide encoded by the polynucleotides of SEQ ID NO:X delineated in columns 8 and 9 of Table 2. Also provided are polynucleotides encoding such proteins, and the complementary strand thereto.

[0006]   The nucleotide sequence SEQ ID NO:X and the translated SEQ ID NO:Y are sufficiently accurate and otherwise suitable for a variety of uses well known in the art and described further below. For instance, the nucleotide sequences of SEQ ID NO:X are

useful for designing nucleic acid hybridization probes that will detect nucleic acid sequences contained in SEQ ID NO:X or the cDNA contained in Clone ID NO:Z. These probes will also hybridize to nucleic acid molecules in biological samples, thereby enabling immediate applications in chromosome mapping, linkage analysis, tissue identification and/or typing, and a variety of forensic and diagnostic methods of the invention. Similarly, polypeptides identified from SEQ ID NO:Y may be used to generate antibodies which bind specifically to these polypeptides, or fragments thereof, and/or to the polypeptides encoded by the cDNA clones identified in, for example, Table 1.

[0007]   Nevertheless, DNA sequences generated by sequencing reactions can contain sequencing errors. The errors exist as misidentified nucleotides, or as insertions or deletions of nucleotides in the generated DNA sequence. The erroneously inserted or deleted nucleotides cause frame shifts in the reading frames of the predicted amino acid sequence. In these cases, the predicted amino acid sequence diverges from the actual amino acid sequence, even though the generated DNA sequence may be greater than 99.9% identical to the actual DNA sequence (for example, one base insertion or deletion in an open reading frame of over 1000 bases).

[0008]   Accordingly, for those applications requiring precision in the nucleotide sequence or the amino acid sequence, the present invention provides not only the generated nucleotide sequence identified as SEQ ID NO:X, and a predicted translated amino acid sequence identified as SEQ ID NO:Y, but also a sample of plasmid DNA containing cDNA Clone ID NO:Z (deposited with the ATCC on March 24, 2000, and receiving ATCC designation numbers PTA-1559). The nucleotide sequence of each deposited clone can readily be determined by sequencing the deposited clone in accordance with known methods. Further, techniques known in the art can be used to verify the nucleotide sequences of SEQ ID NO:X.

[0009]   The predicted amino acid sequence can then be verified from such deposits. Moreover, the amino acid sequence of the protein encoded by a particular clone can also be directly determined by peptide sequencing or by expressing the protein in a suitable host cell containing the deposited human cDNA, collecting the protein, and determining its sequence.

RACE Protocol For Recovery of Full-Length Genes

[0010]   Partial cDNA clones can be made full-length by utilizing the rapid amplification of cDNA ends (RACE) procedure described in Frohman, M.A., et al., Proc. Nat'l. Acad. Sci. USA, 85:8998-9002 (1988). A cDNA clone missing either the 5' or 3' end can be reconstructed to include the absent base pairs extending to the translational start or stop codon, respectively. In some cases, cDNAs are missing the start codon of translation, therefor. The following briefly describes a modification of this original 5' RACE procedure. Poly A+ or total RNA is reverse transcribed with Superscript II (Gibco/BRL) and an antisense or complementary primer specific to the cDNA sequence. The primer is removed from the reaction with a Microcon Concentrator (Amicon). The first-strand cDNA is then tailed with dATP and terminal deoxynucleotide transferase (Gibco/BRL). Thus, an anchor sequence is produced which is needed for PCR amplification. The second strand is synthesized from the dA-tail in PCR buffer, Taq DNA polymerase (Perkin-Elmer Cetus), an oligo-dT primer containing three adjacent restriction sites (XhoI, SalI and ClaI) at the 5' end and a primer containing just these restriction sites. This double-stranded cDNA is PCR amplified for 40 cycles with the same primers as well as a nested cDNA-specific antisense primer. The PCR products are size-separated on an ethidium bromide-agarose gel and the region of gel containing cDNA products the predicted size of missing protein-coding DNA is removed. cDNA is purified from the - agarose with the Magic PCR Prep kit (Promega), restriction digested with XhoI or SalI, and ligated to a plasmid such as pBluescript SKII (Stratagene) at XhoI and EcoRV sites. This DNA is transformed into bacteria and the plasmid clones sequenced to identify the correct protein-coding inserts. Correct 5' ends are confirmed by comparing this sequence with the putatively identified homologue and overlap with the partial cDNA clone. Similar methods known in the art and/or commercial kits are used to amplify and recover 3' ends.

[0011]   Several quality-controlled kits are commercially available for purchase. Similar reagents and methods to those above are supplied in kit form from Gibco/BRL for both 5' and 3' RACE for recovery of full length genes. A second kit is available from Clontech which is a modification of a related technique, SLIC (single-stranded ligation to single-stranded cDNA), developed by Dumas et al., Nucleic Acids Res., 19:5227-32 (1991). The major differences in procedure are that the RNA is alkaline hydrolyzed after reverse transcription and RNA ligase is used to join a restriction site-containing anchor primer to

the first-strand cDNA. This obviates the necessity for the dA-tailing reaction which results in a polyT stretch that is difficult to sequence past.

[0012]   An alternative to generating 5' or 3' cDNA from RNA is to use cDNA library double-stranded DNA. An asymmetric PCR-amplified antisense cDNA strand is synthesized with an antisense cDNA-specific primer and a plasmid-anchored primer. These primers are removed and a symmetric PCR reaction is performed with a nested cDNA-specific antisense primer and the plasmid-anchored primer.

RNA Ligase Protocol For Generating The 5' or 3' End Sequences To Obtain Full Length Genes

[0013]   Once a gene of interest is identified, several methods are available for the identification of the 5' or 3' portions of the gene which may not be present in the original cDNA plasmid. These methods include, but are not limited to, filter probing, clone enrichment using specific probes and protocols similar and identical to 5' and 3' RACE. While the full length gene may be present in the library and can be identified by probing, a useful method for generating the 5' or 3' end is to use the existing sequence information from the original cDNA to generate the missing information. A method similar to 5' RACE is available for generating the missing 5' end of a desired full-length gene. (This method was published by Fromont-Racine et al., Nucleic Acids Res., 21(7):1683-1684 (1993)). Briefly, a specific RNA oligonucleotide is ligated to the 5' ends of a population of RNA presumably containing full-length gene RNA transcript and a primer set containing a primer specific to the ligated RNA oligonucleotide and a primer specific to a known sequence of the gene of interest, is used to PCR amplify the 5' portion of the desired full length gene which may then be sequenced and used to generate the full length gene. This method starts with total RNA isolated from the desired source, poly A RNA may be used but is not a prerequisite for this procedure. The RNA preparation may then be treated with phosphatase if necessary to eliminate 5' phosphate groups on degraded or damaged RNA which may interfere with the later RNA ligase step. The phosphatase if used is then inactivated and the RNA is treated with tobacco acid pyrophosphatase in order to remove the cap structure present at the 5' ends of messenger RNAs. This reaction leaves a 5' phosphate group at the 5' end of the cap cleaved RNA which can then be ligated to an RNA oligonucleotide using T4 RNA ligase. This modified RNA

preparation can then be used as a template for first strand cDNA synthesis using a gene specific oligonucleotide. The first strand synthesis reaction can then be used as a template for PCR amplification of the desired 5' end using a primer specific to the ligated RNA oligonucleotide and a primer specific to the known sequence of the gene of interest. The resultant product is then sequenced and analyzed to confirm that the 5' end sequence belongs to the relevant gene.

[0014]   The present invention also relates to vectors or plasmids which include such DNA sequences, as well as the use of the DNA sequences. The material deposited with the ATCC (deposited with the ATCC on March 24, 2000, and receiving ATCC designation numbers PTA-1559) is a mixture of cDNA clones derived from a variety of human tissue and cloned in either a plasmid vector or a phage vector, as described, for example, in Table 1. These deposits are referred to as "the deposits" herein. The deposited material includes cDNA clones corresponding to SEQ ID NO:X described, for example, in Table 1 (Clone ID NO:Z).   A clone which is isolatable from the ATCC Deposits by use of a sequence listed as SEQ ID NO:X, may include the entire coding region of a human gene or in other cases such clone may include a substantial portion of the coding region of a human gene. Furthermore, although the sequence listing may in some instances list only a portion of the DNA sequence in a clone included in the ATCC Deposits, it is well within the ability of one skilled in the art to sequence the DNA included in a clone contained in the ATCC Deposits by use of a sequence (or portion thereof) described in, for example Tables 1 or 2 by procedures hereinafter further described, and others apparent to those skilled in the art.

[0015]   Also provided in Table 1 is the name of the vector which contains the cDNA clone. Each vector is routinely used in the art. The following additional information is provided for convenience.

[0016]   Vectors Lambda Zap (U.S. Patent Nos. 5,128,256 and 5,286,636), Uni-Zap XR (U.S. Patent Nos. 5,128, 256 and 5,286,636), Zap Express (U.S. Patent Nos. 5,128,256 and 5,286,636), pBluescript (pBS) (Short, J. M. et al., *Nucleic Acids Res. 16:*7583-7600 (1988); Alting-Mees, M. A. and Short, J. M., *Nucleic Acids Res. 17:*9494 (1989)) and pBK (Alting-Mees, M. A. et al., *Strategies 5:*58-61 (1992)) are commercially available from Stratagene Cloning Systems, Inc., 11011 N. Torrey Pines Road, La Jolla, CA, 92037. pBS contains an ampicillin resistance gene and pBK contains a neomycin resistance gene.

Phagemid pBS may be excised from the Lambda Zap and Uni-Zap XR vectors, and phagemid pBK may be excised from the Zap Express vector. Both phagemids may be transformed into *E. coli* strain XL-1 Blue, also available from Stratagene.

[0017] Vectors pSport1, pCMVSport 1.0, pCMVSport 2.0 and pCMVSport 3.0, were obtained from Life Technologies, Inc., P. O. Box 6009, Gaithersburg, MD 20897. All Sport vectors contain an ampicillin resistance gene and may be transformed into *E. coli* strain DH10B, also available from Life Technologies. See, for instance, Gruber, C. E., et al., *Focus 15*:59- (1993). Vector lafmid BA (Bento Soares, Columbia University, New York, NY) contains an ampicillin resistance gene and can be transformed into *E. coli* strain XL-1 Blue. Vector pCR®2.1, which is available from Invitrogen, 1600 Faraday Avenue, Carlsbad, CA 92008, contains an ampicillin resistance gene and may be transformed into *E. coli* strain DH10B, available from Life Technologies. See, for instance, Clark, J. M., *Nuc. Acids Res. 16*:9677-9686 (1988) and Mead, D. *et al.*, *Bio/Technology 9*: (1991).

[0018] The present invention also relates to the genes corresponding to SEQ ID NO:X, SEQ ID NO:Y, and/or the deposited clone (Clone ID NO:Z). The corresponding gene can be isolated in accordance with known methods using the sequence information disclosed herein. Such methods include preparing probes or primers from the disclosed sequence and identifying or amplifying the corresponding gene from appropriate sources of genomic material.

[0019] Also provided in the present invention are allelic variants, orthologs, and/or species homologs. Procedures known in the art can be used to obtain full-length genes, allelic variants, splice variants, full-length coding portions, orthologs, and/or species homologs of genes corresponding to SEQ ID NO:X or the complement thereof, polypeptides encoded by genes corresponding to SEQ ID NO:X or the complement thereof, and/or the cDNA contained in Clone ID NO:Z, using information from the sequences disclosed herein or the clones deposited with the ATCC. For example, allelic variants and/or species homologs may be isolated and identified by making suitable probes or primers from the sequences provided herein and screening a suitable nucleic acid source for allelic variants and/or the desired homologue.

[0020] The polypeptides of the invention can be prepared in any suitable manner. Such polypeptides include isolated naturally occurring polypeptides, recombinantly produced

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polypeptides, synthetically produced polypeptides, or polypeptides produced by a combination of these methods. Means for preparing such polypeptides are well understood in the art.

[0021] The polypeptides may be in the form of the secreted protein, including the mature form, or may be a part of a larger protein, such as a fusion protein (see below). It is often advantageous to include an additional amino acid sequence which contains secretory or leader sequences, pro-sequences, sequences which aid in purification, such as multiple histidine residues, or an additional sequence for stability during recombinant production.

[0022] The polypeptides of the present invention are preferably provided in an isolated form, and preferably are substantially purified. A recombinantly produced version of a polypeptide, including the secreted polypeptide, can be substantially purified using techniques described herein or otherwise known in the art, such as, for example, by the one-step method described in Smith and Johnson, Gene 67:31-40 (1988). Polypeptides of the invention also can be purified from natural, synthetic or recombinant sources using techniques described herein or otherwise known in the art, such as, for example, antibodies of the invention raised against the polypeptides of the present invention in methods which are well known in the art.

[0023] The present invention provides a polynucleotide comprising, or alternatively consisting of, the nucleic acid sequence of SEQ ID NO:X, and/or the cDNA sequence contained in Clone ID NO:Z. The present invention also provides a polypeptide comprising, or alternatively, consisting of, the polypeptide sequence of SEQ ID NO:Y, a polypeptide encoded by SEQ ID NO:X or a complement thereof, and/or a polypeptide encoded by the cDNA contained in Clone ID NO:Z. Polynucleotides encoding a polypeptide comprising, or alternatively consisting of the polypeptide sequence of SEQ ID NO:Y, a polypeptide encoded by SEQ ID NO:X, and/or a polypeptide encoded by the cDNA contained in Clone ID NO:Z are also encompassed by the invention. The present invention further encompasses a polynucleotide comprising, or alternatively consisting of, the complement of the nucleic acid sequence of SEQ ID NO:X, a nucleic acid sequence encoding a polypeptide encoded by the complement of the nucleic acid sequence of SEQ ID NO:X, and/or the cDNA contained in Clone ID NO:Z.

[0024]   Many polynucleotide sequences, such as EST sequences, are publicly available and accessible through sequence databases and may have been publicly available prior to conception of the present invention. Preferably, such related polynucleotides are specifically excluded from the scope of the present invention. Accordingly, for each contig sequence (SEQ ID NO:X) listed in the fourth column of Table 1, preferably excluded are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 and the final nucleotide minus 15 of SEQ ID NO:X, b is an integer of 15 to the final nucleotide of SEQ ID NO:X, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:X, and where b is greater than or equal to a + 14. More specifically, preferably excluded are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a and b are integers as defined in columns 4 and 5, respectively, of Table 3. In specific embodiments, the polynucleotides of the invention do not consist of at least one, two, three, four, five, ten, or more of the specific polynucleotide sequences referenced by the Genbank Accession No. as disclosed in column 6 of Table 3. In further embodiments, preferably excluded from the invention are the specific polynucleotide sequence(s) contained in the clones corresponding to at least one, two, three, four, five, ten, or more of the available material having the accession numbers identified in the sixth column of this Table. In no way is this listing meant to encompass all of the sequences which may be excluded by the general formula, it is just a representative example. All references available through these accessions are hereby incorporated by reference in their entirety.

TABLE 3

Clone ID NO:Z	SEQ ID NO:X	Contig ID:	EST Disclaimer Range of a	Range of b	Accession #'s
HCFNH88	11	413036	1 - 468	15 - 482	AA299504, BF508870, T12637, AF199509, and AK026089.
HODDW37	12	456287	1 - 609	15 - 623	T83532, BF107206, and R09982.
HPMFI38	13	463734	1 - 542	15 - 556	H12876, N58678, AL514125, AB026116, and AC012153.
HLTDP38	14	465120	1 - 980	15 - 994	BE907584, AW328071, AW341406, AW518651, BF000229, AI985460, AI679820, AI679244, BE349182, AW026569, AI913105, AW167521, AI433441, AI824296, AI652506, BE669569, BF224375, AV740400, BE222251, BE551363, AI681756, AW241259, AA352068, AV736248, AV744048, AV741074, AI866013, AI500135, AV740719, BE767739, BF436765, AA363430, AW168483, AW328070, AL119025, BF382482, AI696550, BE541237, AV714931, BE538259, BE867712, R08202, AW168479, BF794062, AA330772, AA078255, AL046746, BF805349, F27015, AA569065, AI061313, BE676915, AA878352, AV719443, AI921188, AI499503, AL157529, AA626829, AL119259, AA281928, AA745362, R79496, AL040462, BG164166, AI560070, BF741627, H21488, AV763469, AA551798, AV727584, N73187, AA878140, AA229444, BE674952, AA167744, BEI39267, AA570344, BF844349, AW103383, H12383, BE145254, H15032, BF767878, BF773092, AW970020, AA669709, AU118852, BG106485, BF834522, AI719656, AK024825, AK000254, AC004552, AL034420, AL035587, AP000170, AP000055, AF019413, AL049540, AP001720, AC006121, AP000502, AC010326, AC011482, D89870, AF037222, L47234, AP000124, AC020916, AC002073, AC002538, AC009275, AP000330, AJ252080, AL158141, AL121825, U95742, AC018738, AC005913, AL159168, AL021918, AC005586, AC002091, AC005036, AJ010770, AC007216, AC022148, AL353748, AC004152, AC007917, AL138717, AC011465, AP001725, AC006530, AL033526, AP000509, AL009181, AC083871, AL022578, AC006539, AC004972, AL445985, AC005366, AL158218, AC007283, AC004212, AL022311, AL031668, U63721, U29895, AC005081, AC006449, AL022312, AC008897, Z54336, AC006947, AC002997, AC005039, AC004638, AC000070, AC008012, AL049753, AL356020, AL031665, AL022326, AL133246, AF027390, AC005828, AL132653, AL133445, AK026841, AC006433, AL096703, AC004841, AC022392, AB023049, AB000931, AL121989, AC009470, AC005052, AB003151, AL158040, AC015853, AC007225, AC012351, AC002115, AC002429, AL122015, Z93016, AL136300, AB014077, AL031311, AP001759, AC010458, AF220542, AC020955,

					AL033376, AL022165, AC011475, AL021877, AC008274, AC011480, AL109825, AL136135, AC005808, AL157838, AC004929, AL133243, AC004254, AC004209, AL109925, AF187725, AC009756, AL157359, AC008745, AC008033, AP001724, AC008753, AC005619, AC005484, AC005224, AC005544, AC011479, AL137139, AC003665, AL096791, AL020996, AC005911, AC005019, AC020910, AC008925, AC006483, Z84572, AC018448, AC010363, AP000279, AC006139, AC004141, AF245226, U62317, AC006511, AL049781, AC008543, AC011811, AJ239027, AF001549, AL138820, AL133448, AF190115, AP001711, AP001753, AC015846, AP001522, and AP001522.
HMHBT30	15	465711	1 - 417	15 - 431	BE868959, AV752876, BF594683, and R29204.
HFCBA57	16	466000	1 - 616	15 - 630	R56760, AW966299, AA339406, AI692199, R13164, AF150231, and AL121968.
HSRAL33	17	488966	1 - 956	15 - 970	BF980228, AV761652, AI769998, BF248482, BF570491, AA424644, AW268553, BF979946, BE877187, AW606938, AU130113, BF381651, AI985014, AA773189, BF696604, AA402448, AI214237, N79639, AW195871, AW197891, AA356925, AA293861, AW197782, AW195894, BE895108, BF572423, N54986, AA555193, AK022835, AF058718, AC004492, and X74635.
HSSMQ84	18	502907	1 - 401	15 - 415	AA296377, and AA378471.
HUKAB82	19	503441	1 - 446	15 - 460	R34441, BG256475, AW957006, AA300168, BE886285, AK027199, AC002394, and AC004381.
HDPPP46	20	506828	1 - 315	15 - 329	AW402168, BF726407, BE797379, H18753, BE782216, T77980, and BF756401.
HMTME11	21	506893	1 - 528	15 - 542	AW953715, AV755865, BF037206, BF978284, AA307934, BE739069, AA873152, F22832, AI095535, AA636042, BE252194, AI373026, AI311846, AI341706, BF675218, F32985, AW262015, AA947394, F32768, AV735940, AA654669, BE739920, AI581721, F27155, AV712832, AA551724, AV685728, AV736497, AI351541, D11719, AW778836, T55216, T54839, AA483200, AI300770, AV712712, N87448, BF210823, F36606, BF434132, BF246076, BF830813, BF830933, AA367358, BE927682, AA095761, AI271368, F31064, AI432581, AA169517, F30843, BE827338, AA872144, AK024594, AF147354, AL121900, AC007739, AL035689, and Z55938.
HBMUK46	22	507310	1 - 417	15 - 431	R53427, and AC005495.
HETDT70	23	509728	1 - 585	15 - 599	AA156832, BE893951, AW957032, AV693732, T96213, AA299371, AA321353, AI810397, AU076717, E16580, AF035268, AF035269, and U37591.
HPWBL19	24	521848	1 - 576	15 - 590	N37051, N22691, AW977672, BF060705, AI740565, BF216881, BE218331, H82723, AW027246, AI354919, AA283799, AA658062, AA749441, N78633, BE467194, BE856126, BE798857, AW269276, AA810447, AA855098, N35468, BF062174, AI694134, AI985299, AI536933, AA281155, AW594363, AA603857, AA761068, AA826929, AI937825, AW977673, AW014079, N24534, BF332207, BG036203, BF515448, AF035397, AF003627, AC005189, and AF130357.

HMKAD85	25	1 - 410	15 - 424	AI589211, AW025408, AI625632, C15297, AA704635, AW028123, AI377558, and AA442923.
HE9NE12	26	1 - 628	15 - 642	BE785096, BE179433, BE787964, BE784506, AW500409, BF085600, AU120753, BE179640, AW178302, AA334799, AL045511, BF571753, BF726397, U85056, and AK001145.
HE2AX73	27	1 - 305	15 - 319	AW119011, AF009204, AB000275, AF119817, and AF119818.
HHGBV89	28	1 - 362	15 - 376	AC016138.
HTTDC06	29	1 - 468	15 - 482	AW249294, H46549, BF037340, and AB037814.
HFXKR35	30	1 - 972	15 - 986	
HHSDL85	31	1 - 657	15 - 671	R12427, and AB049848.
HTECA32	32	1 - 462	15 - 476	
HTEHL79	33	1 - 638	15 - 652	BG163316, AA326490, BF511719, AA234356, AW960948, BF911382, AA323651, AI290214, AC005839, X91879, and AC005920.
HPJBL54	34	1 - 808	15 - 822	BE563266, BG112258, BF797934, BE272440, BF984016, BF326821, BF306396, BG113049, AL517732, BE315014, BF027560, BG257944, BE727070, R60599, BE563463, AA070383, BE206259, R20690, Z44632, AL079371, R21349, BE895144, BE926608, AA351700, AA218584, BE892486, AA973891, BE546412, BF038283, AA102133, AL530121, AA248752, AL525034, AL522857, BF927819, BF927818, and BF983582.
HSDDD20	35	1 - 1028	15 - 1042	BE781101, BE540200, AI972511, BE300952, AA464837, BG150212, AI681901, AW172458, AA099207, AW205564, AW408650, AW205714, AA450308, AA636047, AI656442, BF437116, BE466112, AW575656, AW962721, AW206882, AA099221, AI620473, AA369585, AW469939, AW136836, BE547752, AI638262, BF059133, AA236642, BE551958, AW086133, AI917742, AI623315, and AC005391.
HCUCG74	36	1 - 861	15 - 875	AA236642, BE551958, AW086133, AL163280, and AF064860.
HFIXK94	37	1 - 399	15 - 413	BF366265, AF045448, AL163280, and AF064860.
HPJAV46	38	1 - 403	15 - 417	BE274311, BF219801, BE531261, AW411242, BE531040, BE392456, AW377569, BF694069, AW377571, AV763995, BE263530, AW377537, AW377568, AV761917, AW377624, BF977274, AW852126, AV703358, AW852062, BE872120, BE164388, BE735905, AV711299, AV729227, BE780766, BE874878, AW393740, BF338865, BE615056, BE797162, BF691137, BF678996, BE901483, AA609994, BF311171, BE256747, BF793607, BE253983, AV714212, AL526398, AW852256, BF183197, BE736928, AV725124, BF700891, BG260744, BE743248, BF213101, BE250013, AW935221, BE299748, BE263146, BE300151, AW864172, AW410172, BF214422, BG171603, AW377567, BE873419, BF680148, BF312111, BE899308, AV713872, BG168000, BE741391, BF308822, BF205067, BF310727, BF203650, BF692699, AV708802, BG036583, BG248799, BE207590, BE207583, AI547302, BF304324, BF105254, BE272352, BE019519, BF732414, BE622069, AV751860, BF674867,

					BE300041, BE879936, BE544326, BF685977, BE314894, BE019478, AW852264, BE300351, BF237753, BE256192, BG033184, BF311434, BF686322, BE882480, BG121826, BE293606, AA399320, BF932221, BE395509, BE695712, BG105139, D30938, AV734330, BF683092, AV705448, BF692504, BF206919, AV703060, BE798386, BE882561, BE616007, BG026452, BE298381, BE262277, AW608096, BE070298, BE313176, BF979365, BE744054, BE812386, AW837967, AW732355, AW410757, BF106230, BE738991, BE812361, BF314692, BF932227, BF671336, BE812254, BF184921, BE261507, BF823639, AV711178, BE070300, BG167463, AV710849, BE931905, AV723237, BE812332, AV743501, AW956187, BE259759, BE784936, BF308955, BE900593, AW838045, AW838038, AW608103, AW608101, AW608107, AW608119, R80375, BE812322, BE019582, BE512851, AW608097, BE825686, AA430284, BE812328, AW852120, AW852072, BF203314, BE825718, AV706890, BE899494, AA007300, BF664876, AW837962, BF700537, BE763172, BE825692, BE694306, N28917, AW023727, BE936400, R71432, BE929628, AV702221, AI750601, AW753015, BF303816, AV729377, BE378338, AW837952, AW732592, AL533538, AW837965, BE311411, AA121281, AW837950, BF667711, AW372196, BF184919, AW372220, BF979547, T54945, AW580626, BE304857, AW391852, BF698766, BF665347, AV712080, AW952981, BF679450, AW373976, AW377490, BF671053, AA206647, BF700635, AA385623, AI908145, H85301, AV702882, BE263230, T82198, BF094304, BE394536, AA314228, BF383142, H25321, AW837966, BF203566, BF106427, BG119810, AA379542, BE612803, AW583199, BE732461, BF105082, BF970440, AV736809, AA332760, BF304301, BF316198, AL520449, BE091914, BE091982, AL039105, AX014088, D14696, and U34259.
HTTDL61	39	558312	1 - 315	15 - 329	AW241373, AI566355, R46114, H17077, AA939227, AW474575, AI242576, AL513923, T16523, R45283, F10525, AL133383, AP001726, AC087089, AC005670, AC005803, AP000696, AC004808, and AC002425.
HFPBN94	40	561612	1 - 1312	15 - 1326	AW195253, AW022456, AW022571, AV703012, AI652664, AV707458, AV728546, AW087595, AV703599, AW959521, AV702790, AI888208, AV705047, AW952410, AV705416, BE273626, AV705348, AW953797, AV656013, AV709247, AV651920, AV725633, AV702372, AV702266, AV707652, AV696791, AV709407, AV703494, AW959543, AW955723, AV658863, AW021930, BE966968, AW022168, AV728455, AV709587, AW962444, AW950443, AV726559, AV726088, AW020406, AW952403, AW952183, AW959806, AV656903, AW955613, AV661704, AW952751, AV696106, AV697196, AW956075, AV645936, AI473536, AV658084, AV692600, AV650315, AV659389, AW951263, AV697880, AV727613, AV726010, AV689111, AV728157, AV655280, AV660258, AV656474, AV647789, AV708109, AW956474, AV659294, AV727787,

					AV703146, AV692345, AV686060, AV725745, AW951239, AV686064, AV728148, AV660608, AV659322, AV726156, AV654908, AI473934, AV726590, AV698545, AV656478, AV684962, AV708893, AV709314, AV653353, AV708381, AV654070, AV660728, AV659536, AV691080, AW951281, Y08991, AF130055, Y11505, AX047063, AF217994, A91160, AL137563, S68736, AK024588, X66871, AF151036, AK027109, AK025113, U80919, AF080068, U75304, and AL162083.
HYBBG69	41	562024	1 - 1205	15 - 1219	BE220363, BF892160, BE672744, F23227, AI345156, AI334884, AI340644, AI335399, AI336654, BE138684, AV736474, AI334930, AI309443, AI345790, AI345562, AI307520, AI345026, AI307454, AI340664, AI310592, AI307542, AI345817, AI344808, AI345739, AI345674, AI312143, AI349637, AI312168, AI334920, AW071276, AI344779, AI312258, AI310927, AI307515, AI307578, AI336488, AI349955, AI349738, AW020095, AW075093, AI334941, BG111837, AI312432, AW071377, AI311159, AI312357, AI311435, AI312237, AI312408, AV749238, AI349601, AI307549, AI349213, AI335125, AI349937, AA861958, AI254134, AW148354, AI310925, AI340659, AI340604, BF764538, AI349805, N67350, AI590048, AI307513, AI348981, AI344849, AV744830, AI343030, AI334889, AI273856, AI811192, AI312988, AW071380, AI336565, AI312325, AW071395, AV738918, AI288076, AI312963, AI758538, AA814582, AV736402, AI418436, AA826186, AI313352, AI310920, AI307503, AI311892, AA837290, AV744972, AI312959, AI307708, AW075084, AI336585, AI334913, AW327383, AI349266, AI334452, AI349787, AI310951, AI344938, AI241678, AI348969, AI340634, AI312146, AI312339, AI309431, AI340537, AI312165, AI345258, AI349628, AI349288, AI345310, AI282355, AI344260, AI340610, AI307459, AI343140, AI349971, AI289436, AV737782, AI345639, AI307507, AI348879, AI340642, AI340639, BG121774, AI334441, AI311604, AI343995, AI349220, AI340613, AI313325, AI307456, AI334943, AI311440, AI349960, AI312340, AI310930, AI309418, AI312333, AI312398, AI064830, AW071412, AI334908, AI312148, AI312252, AI049850, AI310945, AI334446, AI345149, AI340662, AI349000, AI312431, AI313350, AI312266, AA417129, AI312414, AI349020, AI312273, AI345251, AI377163, AI310941, AI251257, BG109553, AI470477, AI624976, AV760002, AC007565, Y09972, AL049300, AF175903, AJ242859, AL050024, AL157464, AK025860, AF088991, I77092, AL117394, AK000212, AF132205, AF175983, AL080163, L31396, AL080057, L31397, A70386, S56212, AK026870, U77351, AF213396, AL110228, E13052, Y07915, AF016394, AJ012288, AF130066, AB030200, L13297, AL050280, M69222, E06788, E06790, U49908, E06789, S71381, AL137276, AK026633, AF082526, AL110197, AK000083, AL137281, I03321, AF113699, AF119859, U53505, AF155827, AJ238617, AL117445, AK027173, AF090900, AB032264, AF246126, AK025889, X57961, L24896, X63410, AF038440, AF113690, X73361, AF151076, AB048994, AF082324, AF287051, AK024538, AL110171, AF118094, AL390154,

					E07941, and AK026522.
HDPOJO05	42	562077	1 - 1140	15 - 1154	BE903137, BE732613, AI269493, and AK024472.
HMAGF64	43	562775	1 - 1015	15 - 1029	
HACCO38	44	563589	1 - 686	15 - 700	AA307960, BF691085, AA366364, AA366829, BF030298, AL046574, AA281830, AW402257, AL133061, AB023173, AX011607, and AF235061.
HRAAM31	45	567314	1 - 1232	15 - 1246	AC006230.
HWDAAO3	46	571474	1 - 799	15 - 813	BF064019, BF593236, and BF997680.
HTHCV60	47	572607	1 - 471	15 - 485	BF837516.
HTLEV17	48	573110	1 - 415	15 - 429	R85015, H30718, BG251214, T09058, Z42050, AL042216, BF339690, T08045, AL042446, Z41928, H26862, BE765911, H50921, BE714890, AL042272, AI940226, and AB002373.
HCFAB91	49	573179	1 - 425	15 - 439	AI570416, AW510367, T82334, and AU142902.
HMWEE18	50	573751	1 - 687	15 - 701	BF105895, AA062924, BF843990, R75831, BF086558, T94511, BE931013, AI808807, AW020372, BE671627, AI379326, and AW051986.
HTLAI85	51	574924	1 - 340	15 - 354	AL079482, AU125601, BE742829, AL530239, AW371246, AW367415, H49732, BF951592, BF772285, and D86966.
HHPGQ38	52	575287	1 - 648	15 - 662	BG165743, BF570243, BG166577, AA757672, R89840, N62892, N77803, AA873573, AW243945, BF769085, AI915081, AA297789, AI620992, AA503018, AA297006, AA598627, AA714073, AA862029, AI904944, AI185394, AA599532, BF766147, AA583386, AA102737, AW805539, AI816058, AI349130, BF791744, AW833901, BF884277, AI271762, AA780933, F08866, BF891621, AA809186, AA604147, AA302661, BF997771, AW961582, AA483606, AI049630, AA598605, AW880029, AA452325, AW821722, AI114534, AW821724, AI061303, AW264901, BE077105, H80989, AA570740, AW833047, BF447405, AI355246, AA568204, AA482792, AI310670, AA630854, AI570237, AI889579, BF883232, AA228778, N54538, AA642264, AW780190, AA486820, AA405549, AA635413, AL138299, T93109, BE787136, AW970064, AA326904, BF884894, BF858763, AA496268, R67701, BE149998, AI193417, AA482928, AV754399, AW821718, AA664126, BF922719, F35684, AA224807, AA486277, AA838091, AA847064, T83057, AA515939, AA410788, W96277, AW836439, R70883, AU147162, N91711, BF821072, BF857849, BF807722, AA578069, BG250286, AA501942, AV718585, AA365586, AA577824, AI310787, BG056362, AA642787, BF769229, AA020873, AW974363, AV722143, AV708029, AU120416, N64587, R34561, H65213, AA937809, AI306717, BF764105, AI054090, BE379437, BG113821, AA356376, BG150803, AW265688, AA378207, AA584207, AA630122, AI246061, AW301736, BF902460, BF815843, AI038358, AA229422, BF901391, BF345946, AW873207, AA339923, AV757738, BF918946, AA493797, T15890,

AV754716, BF920612, AA745351, AA669560, AA601237, AI284045, BG057207, AI207738, BE501670, BF941269, R70884, AF075374, AI243793, AA766414, AI978782, AW969743, AL524675, AW273360, AC004099, I34294, AC005516, AC008277, AC009305, AC027644, AL139120, Z93930, AP000255, AP000213, AP000135, AL031846, AC026776, AP000031, U22028, A47886, AF024533, AC005088, AL080243, AC004973, AL390997, AL049643, AL034549, AL139318, AL136296, AL023575, AC008278, AL121825, AF196969, M26434, U52111, AR060394, X64467, L78833, AP001712, AC005165, AL022165, AK022034, AL137330, AC007200, AL049733, Z94802, AC000353, AF111163, AC005559, AC007565, AF165141, AP000252, AC008848, AC009362, AC007269, AC005841, AP000212, AP000134, AP000030, AL031595, AL109965, AL031282, AL049699, AC006251, AC004824, AC010000, AC006101, AL109953, AC007358, AL138997, AC007277, AC011742, AC009244, AC003664, AF027390, AJ400877, Y11107, AC022407, AC008050, AC004383, Z68284, AL359846, AL121757, AL139100, AP000501, AP000065, AC004799, AF219991, AC020917, AC019210, AC008762, AF002223, AL078463, AL391119, AC078889, AF196972, AC006511, AC005053, AL031311, AL109824, AL109743, AC005527, AP000305, AL135959, AC025275, AC002303, AC006536, AL049828, AP000350, AC020906, AL135879, AL121790, U02051, AP000313, AL391259, AL080106, AL049872, AK025621, AC006482, AC007089, AL022320, L09706, AL353092, AF200923, AF217413, AC009007, AC002306, AF024534, AC005222, AC006272, AC005391, AF184110, AL360175, AL031321, AL133211, AC007545, AC004814, AL138735, AL109825, Z75887, AF222685, AC005024, AF038458, AL138740, AP000502, AP000099, AC006966, AC004584, AL023553, AC004804, AL133260, AC006486, AL033518, AL031276, AC004466, AC007021, AC005383, AL138726, AF130248, AL354674, AC011442, AC023158, AC020633, AC027319, AL035404, AC011700, AL121759, AC024563, AC003669, AC007688, AL096701, AC007172, AC008064, AL158141, AC006059, AC009481, AL135960, AJ131016, AL049780, AC010087, AC010789, AL354984, AC006952, AL133246, AL022316, AC012153, AL133257, AP000193, AC067969, X55503, AL137162, AC003072, AP000050, AL022302, Z81364, AC008433, AL023804, AC005227, AC005857, Z98036, AC006088, AL049636, AC034246, AC010205, AL031847, AC004854, AL050307, L78810, AC006581, AC011495, AC005625, AL118513, AC024571, AL035071, AC011510, AC001231, AL352984, AL161665, AC005058, AL121774, AP000047, AC006026, AP000117, AP001718, AP001717, AL031985, AF017104, AC002094, AL035422, U07807, AP000115, M87889, AC005180, AC005971, AL031123, AC020946, AC008114, AC007248, AL138976, Z95116, AC006329, U78027, AC005740, AP001711, AC007030, AC004089, AL024498, and AL121581.

HNGER82	53	576739	1 - 626	15 - 640	R16017, AA570454, R02443, T77361, R16118, AW973414, R06273, and T77056.
HBJLU13	54	578925	1 - 539	15 - 553	AL353713.
HCFDC55	55	581501	1 - 474	15 - 488	AI683115, AW614790, AI949946, BE858872, BF939700, AI469900, AW172942, BE327191, AW451782, AI337875, AW239182, AW295271, AI363093, BE440149, AI471556, AI767259, AI683261, AW028130, BE349166, AI281604, AW027661, AI421188, AW473576, AW243195, AV650898, AI872021, AI376876, AI089774, AA749033, AA703436, N68539, AW235809, BF878349, AI750006, BF114982, AW976177, AV649714, AA526238, AA974484, AA455090, W37813, F09284, AW193169, AI493809, AI700797, Z41088, T92246, AW268135, AV662283, AV649952, T17498, F02060, AI916032, F04236, AV649786, AW976261, AL162084, AK000272, AL137741, and AL157494.
HFKCT25	56	586810	1 - 585	15 - 599	AA341121, and AA341124.
HAPOW05	57	587520	1 - 415	15 - 429	AA827188, BF511504, AW969122, AA504834, AW445204, R01230, BE909102, BG008470, BF951696, T93623, BF529606, AK026482, AB052145, and AF178935.
HCUFP05	58	589293	1 - 903	15 - 917	AL037337, BE250656, AL037347, BF690384, BF689438, AA738329, AW263173, AI401287, BF973585, BE646211, AI817738, AI361425, BF684855, AI500309, AA514406, AA781022, AI206043, AI039311, AW513395, AW510418, AA450076, AI582168, AI497642, AW027882, AI457954, AI734913, AI073893, AI493254, AW055011, AI688170, AW316771, AI344050, AW072287, AI304418, BF221940, AA535731, AI688548, AA399110, AA865470, BG056115, AI150686, N39612, AA843778, AI697688, AA503531, AW576502, AI554678, AI207587, AI381981, AI288532, AI342539, AI818835, AA782161, AI819112, AA844177, AA450132, AI675493, AI925355, AI302554, AA649895, AA826525, BF033350, AI279431, AA953657, AW044509, W60405, W81382, AW292965, BG055706, AI042277, AA758738, AI269455, AA594887, BE535387, AI419994, AA916356, AI694804, AI364286, AI351712, AA613382, AI990492, AA609491, AW406097, AA047617, AI864558, AA918532, AA282175, AA810568, AA633214, BE703250, AA626649, BE250680, AI559917, AW014338, AI918306, BF058804, AI351433, W46766, N93704, AI266616, AA366022, BE298972, BE675634, AA037691, AI382136, C00696, W35374, AA134788, T98249, BG106495, W21588, AI962666, BE273802, AA037690, BF206228, BF526713, AA531006, W23584, AW379851, BE541923, BE904747, BF530226, BF311708, BF683140, BE045182, AI630932, AI926182, BF312128, BE393551, AW118557, AW411235, BF205354, AA1227565, BF128843, BE966499, AW411351, AV759970, AF043611, AF030291, AF001891, I48978, AR050959, AR068751, AF235093, Y11254, AF065135, A76335, I92592, S68736, A93016, AL110280, AF076633, AL389947, A91160, I89947, AR068753, AX030659, AF177401, I48979, I35495, AR072729, AC004942, AR072149, AK026744, AF184965, X83508, AR034821, AR037084, and S71381.

HE8CX53	59	597069	1 - 689	15 - 703	AU138655, AA081738, AW965288, T31616, H05397, T07153, AL035908, C14178, R18920, AA129192, AK002120, AL031117, and A80967.
HCENB31	60	597213	1 - 494	15 - 508	AW960962, Z43654, AA324303, BF955373, AW897155, AW897153, R76139, R80448, AX023742, AF074483, AJ012188, AF069755, AF099033, AF095784, AF056085, AX023740, AF058795, AJ011318, and AF074482.
H7TME55	61	597832	1 - 485	15 - 499	I33191, U22491, and E13005.
HDHMA49	62	600734	1 - 912	15 - 926	R35934, H29244, BE207202, R85125, R90888, H05353, AW966265, R14779, H51247, AA338672, R51725, AA488106, AI873131, AI500178, AI480182, F11386, BF530977, D29763, D64009, and D64010.
HBXBG68	63	610609	1 - 542	15 - 556	
HGBFC53	64	613240	1 - 459	15 - 473	BE549278, BE733028, BF684135, AL523005, BE799676, BF569653, BG025571, BE543724, AU122781, AU118901, BE546787, BE901627, BE619508, BG261003, BF125994, BE867036, BE514804, AU126661, T27149, AA453548, BE872645, BF982234, AA428039, BE732727, H06555, T08101, BF725406, AI372543, BF686296, BF812709, T74159, AA349657, AA137103, F12624, W84358, BG011753, BE271430, BE271832, BF848808, AA464305, T33225, AA210971, BF081773, AI372544, AI567829, AI040013, N30951, BE265922, BE892906, AB033603, AK022488, AK021721, AF210052, AK001318, AF193844, and AF071316.
HPMCK47	65	613734	1 - 1190	15 - 1204	BF996080, W79900, R93661, BF768396, AI015952, R62914, BF435276, C17045, H13468, R23858, AW469629, BF769805, R64187, R63192, BF768469, BF807312, R79604, R64194, R28497, AA583351, AI342016, AI061587, AA330660, AA917802, N29380, AI220948, R81425, AI200655, R25950, AI128381, R79605, R64098, AI220985, BF431082, BF994016, AA729671, AA974341, R62915, BF768468, R81630, R64104, AI094352, AA001841, AP001748, AP001629, AC078847, AC017004, AC016628, AC002416, Z83848, AC010677, AL359313, AL008629, AC006249, AC008554, AC009505, and AF090920.
HAPNX53	66	613777	1 - 466	15 - 480	AV713823, AA482321, AV716627, AV713209, and A90848.
HOFAE02	67	614169	1 - 511	15 - 525	BE910195, BE783656, BE906341, BGI78384, BE048049, BE973606, BE074234, N23506, AA995358, AA293374, N42420, BF970013, N29163, BF743351, BE782150, BF971148, AI924167, AV754940, N31382, AI300946, BG105075, BE896959, AV747543, AV702313, AW510702, AA507156, W38924, BE785316, BE890490, AW188107, H45202, N42404, H40733, AI983025, W95089, AI583243, BE880216, AI301966, W57541, AI015619, T31783, AW006794, BF674585, N33735, AA063083, AW630926, AW168796, BF679757, AA157599, BE858813, BE547758, BF670105, AW051432, R74310, AV742727, BG054826, BF699289, T31262, BE881479, T19230, BE879146, T19230, BE693583, AII25994, AW071976, AI360252, AW149790, AW877810, BF727414, W79708, BE714145, AW583802, BE764972, N33907, R23867, T35747, AI912804, Z42779, R22630, N42319,

Clone	No.	ID	Region	Region	Accession Numbers
HSLIQ83	68	614801	1 - 1099	15 - 1113	AI541287, BE122666, R39387, R28433, AA912616, AA846833, R33701, AW750247, AW297741, BF184398, AI090035, N28470, AI805679, AA702505, AI955820, BF196614, AA918990, AA769460, R67980, BF340421, AI128802, N94922, W95090, AA527383, F30122, AI418108, N33447, AA702099, AI308924, AI720299, H50365, BG109223, H42168, AA886635, AI025955, AI718979, AI857970, AW382456, AA948391, AI369901, AI056727, N24587, N76637, AI014666, AV707627, H70236, F37061, W04143, H50571, AI336552, AW014670, AW182324, AF092138, and AC006254.
HNTMD04	69	615231	1 - 613	15 - 627	BF340747, BG260080, BE547694, AI392767, AU157156, W23048, BF513059, AA701938, AI817436, AI659366, BF948227, AU121610, H05668, AI682404, BG008771, R06611, BG222812, F09099, R49577, AW204732, H11394, Z41748, F02547, R06667, BF344354, R42148, BG026867, N53895, BE299243, A84110, AB028988, AK001996, AL137568, and AF057286.
HRABY48	70	616154	1 - 366	15 - 380	W96405, H75441, T71263, H53046, and AC004849.
HDDAA17	71	616652	1 - 740	15 - 754	AL049709.
HTRAC41	72	618715	1 - 735	15 - 749	AA044695, AA431595, AA044905, AU154369, AA431463, AW937978, AW875792, AW875597, AI745662, AA829389, AW170807, BE350003, AW875719, AI204384, AW665904, AI673728, AB046816, and AK001672.
HOSCV06	73	619875	1 - 1053	15 - 1067	T69560, and T69626.
HMCHS27	74	620219	1 - 506	15 - 520	AA146976, AA058965, AA147155, AI090186, AA099683, AA137215, AA099684, AI873263, AW173233, AI127920, AW082370, AA136188, AA279168, T94367, AI610013, T94721, AA092889, AW104403, AI797647, and AL133104.
HEMFC09	75	625334	1 - 657	15 - 671	AW965472, AA334472, AW631441, T82868, AW663438, AW005046, R94251, AA057050, H14927, BF693286, AA243549, BG251451, AV727485, H10895, BF836499, BE709741, N76939, AI061582, AV726610, AW994061, AW368027, BE779718, N56401, AV709174, AV728038, R60629, T83167, AA465291, BG236037, BF672374, AA249224, AA370905, BF360602, BE832703, AW869410, N52683, and AB029008.
HNTRJ16	76	625432	1 - 852	15 - 866	BE877098, AW812330, BG035638, AU119507, D82299, BE771064, BE771065, AW888543, BF365190, BE006824, BE006769, BF514843, AB046813, AK021844, and AL096715.
HKAEJ09	77	625517	1 - 559	15 - 573	BF570656, BE969659, H05017, BF701826, T78233, T87257, AV757847, AA385525, AL038060, BE868803, BE568456, AK001241, and AC008179.
HKMMS6 5	78	625566	1 - 431	15 - 445	BF726594, BE779521, AI300952, AI352014, and AF085877.
HNHGE09	79	625622	1 - 504	15 - 518	AW381509, AW373459, AW373457, BE894289, BG032374, BF355684, AA085609, BE543790, AW381236, AL529067, BE736532, AA564706, AW673127, R17632, BG250040, BG177016, BE867041, BE797933, BE904858, BG163418, BF308249, BE278984, BE256249, BE783475, and BF306765.

HTTCT34	80	626178	1 - 478	15 - 492	BE561581, AL525396, C75208, BE545814, AA311414, AL526582, AL533011, AW411262, BF085161, AL522581, BG104167, AL520536, AL521296, AL526904, AA334000, AW938624, AU119915, H06122, AW239479, W38676, T50005, AA297279, BF115394, AA302953, AW383613, AW383609, BE958011, AW192348, AW383535, AU120830, AL525440, BF376170, AK022780, AK000480, and AK021925.
HBIAS14	81	637714	1 - 1172	15 - 1186	AI991774, AI793266, BE327552, R74441, BE669500, BF110563, BF448329, BF444926, BE674147, AI807726, BE326537, AW770471, R86080, W04256, AI218667, BE707244, AI492388, AI241532, AI656102, BG012864, BF899452, BF448184, AA301750, AA634640, AI209012, BF331319, BF351759, and BE162660.
HLHSC60	82	638175	1 - 2017	15 - 2031	AW954150, BE271663, BE882577, BE782266, BG034024, BF663854, BE893189, BE906274, BF795047, AII74990, AI064968, BE385133, AL045811, AW410843, BF965937, BE622204, BE614963, BE622511, BF678467, BE271473, BE070862, AW959590, BE271421, BG250794, BE393250, BE746439, AA311362, BE772855, BE268978, W07340, BE019799, BE898464, AA308973, BG027995, AW803849, BE070813, BE562790, BE616540, AW139566, AA131594, AW410844, BG168299, BF031891, BF944978, AW803908, BG255067, AA308972, BF964638, AA180857, BE931993, BE207171, AW386119, AA621720, AII29355, AW192930, BG107431, BG112045, AI288447, AL138262, BE772804, R13316, BG180320, AW902886, AW675677, AA356436, AA373955, AA359864, AI002952, AA180960, AA757406, N78600, T08173, AA705625, H08897, BF964047, AA300048, R98996, AW265468, BF907879, AA249313, AA330694, BE694965, AW611507, BE070869, BF801643, AW148821, AA206756, AI702049, AI445699, BE018971, BF934783, F08693, BG169186, AA846014, BG059139, AW262572, AA147521, AA300049, BF592442, BE070861, BF808559, BF805874, AL121039, AA377004, AA094441, BE770962, AI202581, AA352076, AA172103, AA157620, BF990008, AW577279, AA248016, AW302196, AW391207, AA668421, AW351439, BE142172, BF541501, BF805841, AI886293, BG254398, BE708133, BF342268, AF132207, AC021075, AL355871, AL137654, AL035458, AL096776, AL132825, AL135844, Z85987, Z99716, AL121712, AL133448, AL445483, AC024148, AC069253, and AC069253.
H6ESA95	83	638229	1 - 1139	15 - 1153	AL529511, BE274975, BE727372, BF130709, AW167560, BF594230, AA098911, AW269481, AL529512, AW778988, AI093550, AU145793, AA643337, BF968948, BE302021, BE042613, AI689039, AI081116, BE833918, AW080976, BE045302, AI870146, AI907088, AI799998, AW338493, AA604822, BE796992, BE501153, AI589588, BE379185, BE932009, AA565586, AA579904, BE728414, AI687423, N92368, BE791438, BE746912, AU119457, AW995464, AW044476, BE901684, BE389989, BE018410, BF969275, BF686029, BE260612, AW886202, BF361026, BE386194, BG251377, BF306113, BE797307, BE279225, AW577017, BE897898, BF684743,

1160

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BE260747, AW004737, AI619568, BE387661, Z42370, T55569, BF062617, BE562620,
AA654088, AI919450, AI761377, AA887945, BF972784, AI283990, AA098824, W24563,
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AA836470, BF330887, AW797548, BF747161, AW878948, BE075961, AA065028,
BE390505, AW793250, AW793196, AW128945, BG170109, AI802240, AW983824,
AI698401, AW302432, AI802833, AI610667, AW050578, AW301375, BF911528,
AI583578, AW303075, AW303061, BG257525, AI559752, BF836187, AI933992,
AI348897, AI335426, AI348777, AI114703, AL040241, AI916419, AV682467,
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HLTFA02	85	638553	1 - 1005	15 - 1019	BE274374, BE299307, BG149449, AA149565, BG010137, BG010139, BG004980, AA169366, BE142714, BE812221, BF666656, BE812319, BE079717, BF751577, BF920681, BE939365, BF935231, BE909849, BE270211, BF927251, AB033092, and AC005539.
HISBE12	86	645267	1 - 1526	15 - 1540	AU134630, AU133566, AU133245, AU138245, AU137852, BF574374, BE069938, BF107314, AV704855, AW963336, W23461, AW167802, AA563938, AII27313, AI539532, AA490669, AI874113, D82422, AA226521, AA226177, AI973210, AA386154, AW953092, W05488, AA347504, BF358693, C75173, T55946, AA358324, T52564, AA911206, BF106969, AA336586, AA347630, BF672805, AA452645, AW748957, R82314, T73366, BF369339, AW449322, AI546920, W21489, BF357935, AA366888, W76518, AA091839, BF574018, AA602826, AA362984, AI248642, AA058387, BE176207, BE835004, AA134033, T97372, R00339, R91853, AA004243, AA001805, T57235, T64521, BE090983, AA402341, AA099736, AX047362, AF226614, AF231121, AF215636, AK002038, AF215637, AF226613, AF231120, U76714, and AF147322.
HEBAE43	87	645268	1 - 610	15 - 624	AL521098, BF574602, BF673499, AL046863, BF316406, AW954218, BF977073,

HSBBC07	88	655007	1 - 632	15 - 646	AV743764, AA452012, BE968758, BF104755, T67556, AI089430, AA622029, N51712, AW071881, AW025440, BF593629, AI860915, AI332399, BF248072, AI022266, AA994095, AW014246, AI074224, AI039833, AI288177, AI800953, AA780157, AA757265, AA627632, AA577687, AI092970, AL046862, AA946602, AI093731, AA179187, AI187002, BF055069, N62956, N75603, AA862619, BE898037, W94925, BF149174, AI348280, W95269, W00738, AW750555, W95270, AA292692, AA877282, T96893, AA725376, BF375148, BF372298, H70019, H93474, N95238, H92136, AA430388, W92196, N79859, AA860857, H85196, BF027974, H84661, AV743523, AA293150, AI253649, AI718728, N51801, AI524405, AI383237, AW273559, AI147145, AA352434, AA397987, H01797, H93473, H96838, AA327405, AW084140, W21067, R46856, BF377112, AA369355, H92137, AA421105, AA564314, T84413, W07127, T69552, AI582631, N63622, AI202094, N80289, BE142536, AI269378, AA976190, AW801132, AI660275, AA873627, BF354351, AA931541, AI017335, W05621, R46761, AA937741, AA353783, AI159785, AI288178, AA877001, AA996304, AI471911, AI141409, AA179188, BG151854, AA652715, AF161509, AC023055, and AC023055.
HSBBC07					AW957695, BG167431, BF667170, BG029651, AW629846, AW958886, BE566320, BF794745, AA187579, BF027457, AI870419, BF694672, BF245466, BF688231, BF184831, BE252410, AA375691, BG024470, BF701292, BF212001, AW173013, BF218360, BF666624, BF678487, W31735, AA894530, BF245493, N78134, AI379833, BF211069, BF029426, BF209151, BF695644, AI339336, BE565388, AI336165, AA383311, BE565724, H04478, BE546835, BE302428, AA296522, AA282901, N40501, W58050, BF665566, AW615315, BE897499, BE858489, BF696213, BE568842, AI660120, AW630758, BF668121, BF207942, BF700860, BF239325, R80104, AI697018, R70837, BE793058, D20722, AI418065, BF694034, BE538634, AI961630, AA126483, BF243257, AA946777, BF699997, AA358261, T31842, AA329615, BF211844, AA463798, AI372055, N31210, AI280166, AI281293, AI191797, AA918864, AI018252, AI804228, AA381668, AA115687, AA864307, AA948109, AA938579, AA932915, AA460235, AII23356, AII24079, AW754363, AA939258, AI201697, AW627534, AI476152, AI284979, AA806449, BE789077, BF239695, AA181956, AA633371, AA740178, AC011890, AB034206, and AL110115.
HL2AE73	89	655590	1 - 354	15 - 368	AW138862.
HE2OO57	90	656211	1 - 513	15 - 527	AA587990, AI355697, AW955630, AA328879, AW954613, W01389, AW999957, AW440737, BE069761, AA476616, AB019602, and AB019494.
HEEAR13	91	656288	1 - 381	15 - 395	R01466, R08954, AA422070, AI204649, and AK000032.
HFIYL13	92	656815	1 - 1074	15 - 1088	AL536911, AL527869, BF245609, BE270323, AA044869, BE893730, BE733057, BF242916, AL527868, AA306654, BE268826, BE875296, AU149506, BF747701,

					BF747559, BF688822, BF743065, AU153925, BG253085, BF768009, BE882028, AK022744, AK023347, and AK000318.
HLWBHI4	93	658066	1 - 528	15 - 542	BE407162, AA188632, BF027256, BE253590, AI765126, BE408498, BF448597, BF057607, BF061666, AI167162, AI149274, AI122952, AI470212, AI740767, H96358, BF433481, AI240225, AI168425, BF979354, H13281, BF025838, W15511, R69088, AI240223, AA526820, R68610, R67855, R26131, AI760064, H87001, H92608, H95449, BF507644, AW951915, AA307149, BF439530, BF108898, BF475986, AK000044, and AL078599.
HATDW51	94	659283	1 - 866	15 - 880	BF060905, N40525, AI347028, AA017496, AI040075, AI039421, AI458626, AA286737, AI241136, T76946, N26680, BE503575, AA287611, AW085657, AI039280, AA651849, BG057152, H81831, AA628122, AA806765, AW613553, AI445047, W95380, F13174, N46574, AI191989, AI191995, BF833339, AW662034, AV709642, AA659062, AI381740, BF745429, BF745855, AA620360, BF745430, BE816364, BE816359, AW795253, BE816357, BF743976, and AL135744.
HDPWQ69	95	659380	1 - 613	15 - 627	AA458518, and BF929403.
HNTBM67	96	659801	1 - 1057	15 - 1071	BE883765, AL134955, AA307472, AW960339, BF949791, M78461, AU130812, D56412, AW382561, AW382555, AW382532, AW382562, AW382559, AA223890, AI536122, AA826373, AW382553, AB014509, AB011159, D84346, and X80029.
HAIDY03	97	660532	1 - 525	15 - 539	AI061582, AV727485, BE709741, AV726610, AA334472, AW965472, H10895, AV728038, AV709174, T83167, BF836499, AA243549, AW368027, AW631441, AA487327, R9425l, T82868, AA487348, AW663438, AW005046, BG251451, N76939, AW994061, H14927, AU148042, AA057050, BE779718, BF693286, AA249224, T87261, AI218622, AA506341, AB029008, and AK022433.
HDPDO12	98	661436	1 - 813	15 - 827	N30852, BF969528, BF025927, AA649075, BF315460, BF673758, BF726778, AA044232, AI425185, BF316493, BE260771, AI554723, BE047920, AI311315, AW029340, AI521451, AI805148, AI498798, AI087161, AA805252, AA405814, AI336402, BF680729, AI523953, AI275026, AI066488, AI863172, AA578642, AA417368, AA643942, AI024499, AA771979, AA889325, D63281, N30846, AW072029, AI032053, AW973064, AA101605, AA535747, AI299774, AA405813, W87448, AI191773, AA532648, H19832, AI268393, AW511845, AA745462, AA504479, AA722399, AV693812, BE777538, W87547, W31335, AI991341, AI004929, AW389246, BF247509, AA527348, AI033919, AW881217, AI343828, R12706, N92451, AA812821, AA991616, AW071205, AI092319, AA252648, AA055130, AI538413, AI014793, AA568733, AI000773, AA586676, AA228934, AA746136, AA872357, F32688, H19862, W20305, BE772781, AI037869, AA770508, AA476252, BF592563, F28098, BF060869, AA523469, N90683, H79071, AA094921, AA262932, R78468, H13151, AA937835, F19025, AA740856, BF591772, AW071810, AW607594, AA044371, AI870108, AW607628, BF438690, H04564,

Clone	No.	Accession	Range	Range	Sequences
					BE938328, AA055051, N41379, AW262852, AA504556, AA101604, AU121888, BE166026, BE855379, AW864878, R16450, AI859479, AW970118, AA515190, AA618357, AU147619, AI239641, N83997, H94808, AI032027, BE812158, BE166064, BF091989, AI738961, BF091992, AI084177, AW751676, BG099186, BF870262, AA210633, AW168939, AA299420, BG058939, BF765530, BE925027, C01735, BE171344, AV709813, AX014301, AK024167, and AX014305.
HAGBC45	99	661694	1 - 1524	15 - 1538	AI681538, AA399973, BE326518, BE504079, AA573265, AA401309, AI379315, AI215506, AW471197, AI377132, AI681742, AI332991, AW269403, AI377465, AA456746, AI685315, AI263428, N93369, AI374952, N32714, N23006, AA884641, AI218150, W24957, N95585, AA226426, AA773714, AI140445, H17820, AA253264, T86889, AW269001, T86888, AA226563, AI033243, AA041235, H17819, AA358475, R16622, R16564, W25386, AA883664, AA773710, R16637, AA040797, BF509086, AI927610, N89206, AI208762, AK027056, and AK026797.
HNTNT65	100	662513	1 - 466	15 - 480	AW390157, BE250250, AA984504, BF376487, BF872063, BF923015, BF089975, AW294491, BG013986, BF733484, BE938102, BE719457, BE719459, BE935304, BE935305, AA385992, BE935592, BE907538, AI364918, BF334977, BF848924, AW296910, BF115534, AI831921, AI762572, BE764192, BG002605, BE764158, AX011645, and AF151799.
HTTAA50	101	665234	1 - 1156	15 - 1170	BF672232, BE537550, AV726990, AW450529, W32935, AA291282, AI240547, R16759, AV708580, AA053120, BF131640, T90562, AA436957, AW673770, BE348961, D79613, BF112026, D62474, BF795760, T90089, AI040785, AA496051, AI927287, AI935626, AI245410, AI151377, AA877741, BG152881, BF222016, R09207, AI913677, BE174769, AI027090, BE049632, AA991755, AA889277, BE327905, AI217584, BE222030, AI825249, AA765219, BF059450, BE645880, AA761487, AL050331, and AL023280.
HAGBX32	102	666416	1 - 625	15 - 639	H04905, W29095, H11833, AW875327, AF134640, AC004125, and AJ272044.
HHTMM18	103	666429	1 - 531	15 - 545	AA258921, BG026982, BF056154, T11903, AB037838, and AL050333.
HHFGR08	104	677779	1 - 1565	15 - 1579	BE748748, BE748510, BG255761, AW393085, BF240527, AW976133, AV707941, AI742057, BF102537, BF241358, BE748448, AI264355, AW875250, BF242245, BE748211, BF243467, AW875242, BF242831, BI215321, AI435473, BF213944, BF213952, BF028653, BF243295, BF243838, BF214842, BF243749, AA676810, BF242687, BF242568, AI884446, BF031764, BF241173, BF215271, AW452347, BE043080, AI280708, AW152544, BF243754, AA284643, BF214962, R83315, AI687112, AI623742, BF215307, AW512889, AW594361, AA737033, N63887, BF242146, AI538659, BF239594, H60297, BG180852, R99166, BF214678, AA134487, BF215366,

				AW083596, H60298, H48469, AA290765, R50608, T23528, AI873862, N92031, R50519, AW875361, BF241309, and AA211082.
HHBEU19	105	1 - 510	15 - 524	W00819, AW963996, AI949555, BF245063, AA377198, and AA249131.
HWBBB21	106	1 - 699	15 - 713	AW468066, AW238267, BE618753, AW897644, R14231, AW897647, BE179313, BE963215, BF814967, AW872506, BE173335, BF912222, and AK000143.
HAIDX85	107	1 - 2052	15 - 2066	AL534096, AL534095, BG259886, BF970703, BE304636, BE536920, AW973921, BE301321, AW386287, BF982614, BE818465, BE018698, BF314421, BE741216, BF726009, BE138864, BG116337, AW000899, AW630010, AI924067, AA114200, AA568911, H09030, AW613797, AI569625, W28817, AI218322, AI217373, AA256422, BE315044, BE742801, AA662710, AI338593, AV725885, W26670, H03838, BF374209, AA312912, H03839, BE810299, AA862597, BE810307, N46856, N39122, C16564, R18735, R11595, BF857926, BF920704, BF822773, AA147297, AA340634, BF954410, BE868860, BF949714, AA147186, AI444616, AI022477, T89971, AI444617, AI808006, and AK026744.
HMMAV06	108	1 - 629	15 - 643	AU135561, AV752385, BG060175, AW378313, AW378316, BF680418, AB002347, AK026998, AL049843, and AK026948.
HISAM25	109	1 - 779	15 - 793	BF531021, R55610, AA179088, AU132929, F07005, BF725066, AI143877, BF693602, AK023273, AX047351, AB040930, AC024167, and D45913.
HRODX93	110	1 - 712	15 - 726	AC006262, AC024698, AC024698, AC022273, AC023349, AC023349, AC023349, and AC023349.
HLJDK82	111	1 - 3245	15 - 3259	AL521457, AI051591, AL521456, BG028004, AV661958, BF981848, BG257469, BE560747, BF037795, BG261369, BF510976, BF791665, AW378643, AL134642, BE613309, AW960340, AI692896, AI952060, BF677984, BF349860, BF432744, BF676148, H93052, AA156070, W85861, BE072769, BE004809, BF830574, AA195128, AW401953, BF107422, AW272711, AA452951, BE858150, BE644932, AA307793, AA304943, AA773575, BF69391, AI936207, AA773916, BF132474, AW295959, BF834093, AI373149, AA182021, AA055577, BE315444, AW104431, AA767726, AV749526, AI215110, AI124008, AA186538, AW152132, AA037776, AI972932, AW468710, AI752572, AV724037, AI983223, N73564, N40159, AI002310, AA677490, R93506, AW168300, AW753567, BF349968, AI214625, AW268724, BF086970, AA306855, AI752573, AI074572, AW272230, AW977732, AA001953, BF130159, AA165681, AA004671, AW662398, AA182938, AA643741, AA580108, AA155986, AW386169, AI082391, Z44330, AA121127, AI214614, AA635553, BF246170, AA122425, AA773509, BE612719, AW083935, AV696709, AI979176, AA452813, AI435966, AW118902, AA620795, AL119024, AA613564, AA382161, AA758804, BF744099, AL121332, AI783502, AW969082, AW300568, AI086188, AI340942, BF000775, BE893817, AA827249, BF701522, T40456, AV748242, BF332048, AA620891,

	112	1 - 592	15 - 606	AW419327, T10382, BE162170, AA935555, BE708940, AI052475, AI470840, AW379031, AA195021, R09456, AW601974, AV747643, AW373197, AA001147, AW021736, BG002410, AA095034, AV681876, N57895, AI140739, AW515540, R09455, F05504, BE173039, AA676368, BE165820, AA169421, BE925935, AA355256, BE931730, AA628139, AI918650, AW835274, AL118829, BE708119, T40131, AV694828, AA307469, AA639473, AA909550, R93507, AW505311, R05284, T39176, T96058, D19735, BE881134, AI247324, AI784293, H93918, BE173078, BE814408, BF748924, AI032098, Z41685, R09454, BF890807, BE315206, AA337038, AI143688, BG115143, AA861575, BF818357, AW363634, BF377200, AW794051, AW362035, BF814980, AI248845, AA934532, BF082029, BE815786, AA932719, AW813872, BE165826, BE925596, BE082831, BE082832, BG254139, BF314301, AF226054, AC015651, and AF113221.
HCFMJ37				R52491, H17763, AL038768, BF691687, AV717005, AV734854, AV728273, AL035739, BE748156, BF979733, AU118684, BF575231, BE568917, AA084554, AV718330, AV726438, H16532, BF904068, AI750581, AI903894, BF033632, BG104800, BE738971, R21494, BF246715, BE785069, AV717056, Z41981, BF983256, R13337, AA322574, AA448043, T26420, AA461375, AI903843, AI792383, AF161445, AF212245, AK021683, and AF151047.
	113	1 - 639	15 - 653	AA156614, AI082082, AI086841, AI147047, AI185792, BG032133, BG034866, AW964839, BE740466, AI685906, AA569397, AI191694, AI188677, AI189282, AI022346, AL527990, AI128015, BG164811, AI160462, BF689154, AA151425, BE300105, BE206572, AI129363, AI572655, AI190802, AI192597, AI421638, AI123915, AA588200, AA632395, AI189252, AI190346, AI093266, AA985507, AA877464, AI092471, AA931075, AA812308, AA988393, AI141184, BE349219, AI079428, AI093935, N27456, AA599284, AI459518, AA621601, AI888940, N35806, N90875, AI039753, AA126032, AA826851, BG165764, AW337130, AI093326, AW338528, N90134, BE789089, AI573072, AI978985, F36547, AI264288, AW083207, AI268392, BE221316, W02208, AI868334, AA574010, AI953460, AA485449, H99139, AW591194, AA156917, AW511453, AA574010, AI953460, AA485449, H99139, AW793090, AA485617, AW194542, AA480004, AA482529, AA453453, AA738323, BG121838, AI936581, AI146899, BE219045, AA074444, AA417875, AI272974, H06706, AI357984, AI049922, AA143143, F30191, AA143382, AI872526, AI925798, H93348, BF204611, T56729, AA470878, T83669, AA989134, W32004, BF822183, BG251677, AW051161, AI192266, AW339303, AA669703, AI873894, H95625, AW051188, AA151424, AI932563, AA991593, C00453, T84534, AW078974, AW206415, AA857972, BG117198, AI611003, T83833, BF001688, BF812028, BG165138, AW008736, BE672775, BF380144, AA658204, AA341518, AR060388, and AF058807.
HMWAP1 7				

HMCFA76	114	684293	1 - 560	15 - 574	BF969528, BF315460, BF025927, BF673758, AA649075, BF726778, BE260771, BF680729, AA805252, BE047920, AI311315, AW029340, AI521451, AI805148, AA425185, AA643942, AI087161, AI336402, AA101605, AI554723, AI498798, BF316493, AI523953, AA405814, AI275026, N30852, AA578642, AI066488, AI863172, AA771979, AA417368, AI024499, AW973064, AA889325, AA504479, D63281, AI032053, N30846, AA527348, AW072029, AA535747, BF247509, AI299774, AI191773, AA044232, AA405813, W31335, W87547, W87448, AA532648, H19832, AA722399, AI268393, AW511845, BE777538, AV693812, AA745462, AA055130, AI991341, AI004929, H19862, AW071205, AA252648, R12706, AA586676, AW389246, AI033919, AW881217, AA812821, AI343828, N92451, AA991616, W20305, AA228934, AI092319, AI014793, AA568733, AI538413, AA746136, AI000773, AI037869, AA872357, AA476252, AA094921, F28098, F32688, BE772781, AA523469, AA770508, H79071, BF592563, AA937835, R78468, BF060869, N90683, AU121888, F19025, H04564, AA262932, AI870108, R16450, H13151, H94808, AA101604, BE938328, BF591772, AA740856, AW071810, AW607594, AA504556, AW607628, BF438690, AA055051, AW262852, AA618357, AW864878, BE166026, BE855379, N83997, AI859479, AW970118, AA515190, AI239641, AU147619, BE812158, AA210633, AI032027, AW168939, BE166064, BF091989, BF870262, AI738961, BF091992, AI084177, AW751676, AA299420, BG099186, BF765530, BG058939, BE925027, C01735, BE171344, AA373508, AV709813, AX014301, AK024167, and AX014305.
HTHCM28	115	684309	1 - 1973	15 - 1987	AL524312, AL522827, BG260938, AL516117, BE792575, AI922738, BE873250, BG180370, BF311244, BG121041, BG036096, AI742798, BG031508, AW473070, BG178428, BE621819, BE876480, AW965166, AL524313, AI521861, BG164176, BE207270, AU154596, AA156048, AW796242, AW605147, BE081689, AW608807, AI937084, AW385322, AU147492, AV716431, AU148219, BF197439, AW474818, AW071089, AW247207, BE301182, AW834827, BF997412, AI393092, BE220183, AW150166, BF698915, AW247815, AW129619, AA593405, AW439761, AW366702, BE167300, BF058546, AI191767, AU157014, AI827281, AA055259, AA082848, AW474734, AI274887, AW292560, AW292339, AI681022, AW937927, N71255, AA454912, AI754310, AA961126, AA454836, W01562, AA088679, AI050679, AI467791, N58730, BF851421, T30213, H79378, AA157459, N62405, BF754744, BE082261, AL138072, AA112191, AW105535, AW206734, AA055258, BE183938, AI187893, AI630182, Z40024, AU157710, AA759028, AA086241, BE835912, T81323, R01268, N72641, AA679367, T07142, BE061996, BF964279, H79267, H27407, AA972254, AA204677, BF986068, BF062635, BF798884, AA995340, AW237668, AW772066, AW900962, T81852, Z46058, AA557468, H28601, BE812021, BF353337, T32580, AI536616, AL044924, BF849656, R01382, BF212235, AI434054, BF743715, AW293484,

					BE826143, AI002409, AL138073, AW939242, AW978464, BE928649, BF879084, BF357736, BF948796, AA044699, AI370000, BG231907, BF744744, BE093552, BE833989, BF922103, D20569, BF911516, BF820096, BG001523, AW389488, AA501359, BF746233, AL390171, AK001725, AJ223830, AL031228, AB022537, AF100956, AF110520, AJ006026, and AC087217.
HHEDB45	116	15 - 634	1 - 620	685054	AI207821, BF952987, BF155610, AA102259, AW379923, AA301458, BE925010, AW889669, BF772647, BE696816, BF733180, AU160796, BF762963, AK001719, AF152961, AL135744, AC007528, and AK024072.
HTACX15	117	15 - 1009	1 - 995	685191	BE883093, BE884483, BG027520, H10439, AW955523, R52785, AA281828, T79895, R67193, AV730640, D61521, AV730776, Z19358, AA305743, H21747, AW062518, AW501215, N53853, BE974133, BF577121, AL136501, AK025606, AK022978, and AF131775.
HFIZN55	118	15 - 715	1 - 701	685340	W86347, BF432058, AW008475, AA446825, AI491957, W86348, AC002064, and AK024715.
HCE1U38	119	15 - 2432	1 - 2418	685495	AL537630, BE379378, AW953381, BE745060, BE408034, BG250739, BE731485, AV707754, BE730630, BG114419, BE394329, BF035312, BF341487, BF220298, BF791852, BF219748, AW409633, BE273198, AW793675, AW409746, BE673022, BE141458, AW365221, BE273114, AI888252, BF960994, AW793608, BE336870, AI963081, AW365985, AI719352, AW628991, AI870998, AA526056, AA824646, N40215, AI037847, AI554890, AW365950, AI598219, AI830693, W90606, AW365925, AA227444, AA732821, AI800413, AI817298, AA025450, AI127436, BE729822, AW190798, AI675827, BF215308, AI335265, AW605015, BF308910, AI890641, AW149481, W90283, AW087384, AI281445, AI289868, AA127060, BF826466, AA993770, AI205967, AI674727, AA565110, AW408017, AW438640, AW071077, AA126671, AI086531, AW407623, W67695, AA676533, BE677211, AI763067, AA486290, AA622632, AA125937, AA705101, BF508182, AA127033, AA489311, AI582947, AW237626, AA025895, AA992888, AA314447, W68154, AA075942, AA025449, BF840544, AI799186, BG057888, AI298301, AW117849, R18337, BF379757, R48988, AA354778, R42383, BF759488, R35325, AA262924, F12691, AI971065, F27343, T74957, AW779410, BE247290, AI358844, AA907111, F09227, R49398, BE828133, BG012833, AA526002, R92809, AI290093, R43689, AA055120, BF933629, R35011, AA055119, T99344, AA148960, F10300, AA092883, AA367228, AA127831, AA011292, AA807291, Z38701, AI471094, AW874232, Z42505, BE139605, AI418711, AI363914, AA127837, AA010856, AA148959, F11573, and T99554.
HNFIL36	120	15 - 776	1 - 762	685604	BF568200, BE900421, BF568961, AW291267, AI912687, AI568596, AW956329, AA725526, BE504463, AI298130, AI921203, AI367591, AI348687, AW295172, AI885246, AI521328, AW050798, AA456741, AW291380, BF438189, AA992499,

Clone					Accession Numbers
					AA988237, R68384, R48228, R96498, AI695492, R68589, R45494, AI928657, BF476567, BF591706, AW024061, AA376740, BG012296, and D63758.
HSKZB03	121	686533	1 - 1774	15 - 1788	BF038650, AW600316, BE875992, BG253891, AW731682, AW372313, BE878814, BF591262, BE880516, BE875882, AW601338, BE206056, AW601314, BE877211, AA704088, BE219547, AW068001, AA223294, AA463501, BE902880, W46285, BE547229, BE786476, AA825343, AW068149, AW068066, AA113396, BF984659, AI754129, AW166703, W46425, H97088, BF820322, AI400098, BF436533, AA463548, AA126474, AA373922, AW294872, AW601596, AA120990, AI906777, BE549833, AA506770, BE300315, W51857, AI650979, AA999931, AW673699, AW604817, BE875366, AI908075, AI908094, AA676408, AF098462, AF055460, AF035377, AB012664, AF031036, AF031035, AB030707, and AR091383.
HNTMZ26	122	688935	1 - 402	15 - 416	AL533776, BF238947, BF671575, BF307134, BE896826, BE615467, AA297354, AA451764, AA127134, AA451762, AW239455, H10448, BE296524, BE297034, BE299140, T78950, BE311846, BE299196, F06459, BE294911, BG251513, BE270310, BF791036, BG110633, BE792285, BF338838, BE880218, BF308716, AL513740, BF979464, BG121135, D31389, AA297420, BE266974, AA194682, AA296942, AA297421, BF725960, BF038786, BG030014, BE784543, AF169481, AR076172, and AF125533.
HHENC76	123	689978	1 - 356	15 - 370	H63787, AA348525, AW961852, AA317641, BG251796, AK026836, AP001714, AL138825, AP000104, AC009731, AC010605, and AC011248.
HHSGJ30	124	691490	1 - 691	15 - 705	N63401, N95690, T07930, R42490, F11129, R38167, Z38365, and AW896192.
HE8EQ09	125	695741	1 - 2105	15 - 2119	BE897106, BG109874, BE538275, AV721438, BF969051, AW249865, BE312617, AW968992, AI091273, BF530606, AV702380, AV717337, BF726753, BE079600, BE894114, AW958900, AA313317, BF432282, AV726680, AA854119, BG104855, AA479605, BF666506, AA528178, AI741720, AI949241, W37670, AI041810, AA427616, BF060652, AI678997, AI421428, AI376945, BE169352, AI682011, BF593666, AI018757, AW024459, BF665336, AI805755, BE865716, BF541044, BF212134, AA115177, AI088836, AA843850, AV723775, AW964454, AA397898, W55938, AA164656, AI817629, AA148013, BF697773, AI419386, BF196461, AW340310, AI031676, AW166105, AI653966, N41633, AA833840, AW513611, AA164657, W58241, AW057816, BF214591, AI220471, AA417296, W58242, AA576267, N29628, AI333667, AI446780, AA416560, AI040265, BF732377, AA947478, AW517173, AA255918, AW392222, AW003884, AI051395, AI304937, AI347635, AA988744, AW020149, AA772434, AW130885, BE709243, AA713478, AA903306, AI023956, AA470629, N54515, AA974783, AA393599, AA465651, AV726981, AI081927, H07998, AI033986, AV727708, BE827568, AI344527, AA437350, W37530, BF955268, AA584287, AI571215, AA459425, AI493440, N51885, N48016, N35368, AV725588, AI159809, AI573012,

AW951698, AI039904, AI028502, N41531, AA281406, AA554092, AA770637,
AA574012, AI366997, N29516, N36022, N20818, N27425, W39255, AI092581,
AA251015, AI366775, AI084384, AA147985, AI022504, BE243164, AV725899,
AA313617, AI417192, AA928947, W42526, BF570757, AA773339, BF214373,
AA902741, AI276064, AI344624, N63383, AI348399, BF185484, AI128976, N24900,
AI022495, AW438835, W94541, N30124, R51426, AA846586, AI682889, AA976669,
AI095352, AI567371, BF848965, W52608, AA652023, AI983274, AA605267, AA890442,
AA903999, N30541, AA599849, AA131635, R79812, T74223, AI797520, R78826,
AA504313, AV660751, R62705, R25326, BF431079, H96859, AA890540, BF246795,
N35735, AI200275, AI625128, N57460, T33335, AA788773, AA255919, AV708922,
AI564312, R51314, W15286, BE967755, AA825307, AA411697, AA878389, AA489232,
R77590, AW370869, BE620202, AA417822, R79321, AI242587, AA084106, W27971,
D51241, AA652014, F10105, BF058045, BE265002, AA844543, AA298831, AI275474,
R17981, AI075460, AI439760, AI879862, AA854083, H56745, F12487, H10236,
AV660547, BE707078, H59133, AA952967, R44801, H59176, AI034047, AI702447,
AI750027, AII86656, H12551, N27239, H10190, AI689439, AI214761, AA298846,
AA298119, N76218, BE707045, R34849, AI205633, H85240, AI963141, AL049929,
Y17975, AF259074, A74463, A74460, A74462, X84990, I48978, AL049382, AK026494,
AK027116, AL122050, AK026626, AK024992, AL080234, AF185614, J05277,
AK000137, X80340, AL390179, AK000432, AF090943, AF119909, AL049283,
AL080060, AL122110, AF116691, AL117649, A07647, AL359615, AI8777, AF132205,
E04233, AL117457, AL133016, AF116646, AK026528, I48979, AK025339, AK025435,
AL137550, X96540, AK025099, M30514, AB025103, AX046842, AF090903, AK026597,
AL117394, AK000486, I89947, U75932, AL110196, I17544, AF218023, AR079032,
AK025484, AL133558, AL080146, AK026353, AF113699, AL080154, AK025350,
AF242189, E02221, S54890, AL137648, U76419, AL359583, AK026762, AK025092,
X57084, U83172, A90832, AL096751, X63574, AK026542, AF244915, AL133075,
AK026927, A08910, AK000690, AK026506, AF175983, A08909, AF113677, A77033,
A77035, AL050172, AL096744, AF176651, AF100931, AK026480, E03671, AK027082,
AK000636, Z82022, AK024974, AL137529, AK025015, AK026434, AK000647,
AL122123, AF115410, A18788, D83032, AB049892, A08908, AK026894, AR075041,
Z72491, AL353957, A08913, AL359601, AF130087, S77771, AL050149, AL389935,
A03736, AF227198, AX026824, AX026823, A58524, A58523, AL035458, X83544,
AF119860, AL389947, AL133606, U91329, AK024588, AL133623, AF113691,
AF130059, AF116631, I89931, AF116670, AK027113, AF119878, AF177336, AF232009,
AB048954, Y09972, AK000310, AL110280, AR038854, I29004, X66417, AR087170,
A08916, E05822, AL049430, L40363, AL122106, AB047878, A08912, D16301,

					AF192401, AF192402, A08911, AR068753, AL080124, AL162002, AL137429, L13297, AK027114, AF130066, AL137526, AK024538, X87582, AJ000937, AB047623, AF119865, AL133081, AK025414, AX019229, AL117460, M86826, AB007812, AB052200, AF260566, AF106657, AF208026, U42766, AL137521, X55446, AJ250403, AY004290, AK024524, AL389939, AF113019, AL133067, AL389978, Y11254, U67958, AF067420, AF069506, AF217987, AR059958, AL137554, AK027160, AF017152, AF119857, I30339, I30334, AF026008, AL050108, U73682, AB032264, AL122118, AL137273, S76508, AJ005690, U72621, U49908, AK024570, AL136842, L19437, AK027102, U70981, AK027096, AB048964, AL137560, AK026518, AF159615, AK027213, AJ238278, AF047443, AF094480, AL122093, AL050138, AK025465, E01614, E13364, AF057300, AF057299, U72620, AF035161, A08907, AF126247, AL050024, AB041801, AK026959, AK025407, AL161953, AL137459, AB033881, AL117585, and AK027200.
HJKSC77	126	698634	1 - 486	15 - 500	BF207871, BF672390, BF210595, BF667487, AW958198, BE879682, BE958210, BF213084, AV714149, BE781669, BE788855, BE904974, AL529245, AA165446, BF694328, AA167433, AA446795, BE567812, AV696408, AV721198, AA167074, BE566185, BE886046, BF574268, BF218193, BF212797, BF132353, BE565691, AV692206, BF211500, BE613870, BF690906, BF668915, BF217003, BF208449, BE565391, BE567899, BF241795, BF217280, BG170232, BE567085, AA292252, BF211073, BG170146, BF103549, BF574941, N36033, BF698746, BF247359, BE926436, BF244908, BE565626, BF184621, BF029660, BF239234, BF029339, BF530881, AW604559, BF754702, AI750420, BF672085, BE567889, AV728059, AV729106, BE865963, BF239697, AW630584, BF693944, BE865942, BF696659, BF677397, BF669008, BF217310, BF217631, AA334848, AA079814, AA344673, BF244900, R31063, N75132, BF208918, BF215923, N40739, BF086448, AA166930, BE614475, W37976, BF240004, AA173470, BF028978, AW392722, AA329536, AA005078, BF027765, AA253190, AA460569, BF738903, BF208304, R58189, BF851236, AA377054, BE567327, W21391, BF993950, AW978143, BF849551, W47186, BF208334, BF208981, BF245946, AW960560, BF851329, BF216171, BF696911, AA909011, BF695321, AI435845, BF002030, AW510857, AI435369, AA304600, AW466951, AI123581, AI379585, BE565284, BE184246, AI379067, W37757, BE147734, AI305828, and AF220193.
HDABD32	127	699216	1 - 459	15 - 473	BE900337, BE903374, BE900986, AA282606, BF814200, and AK023151.
HWACC64	128	702658	1 - 758	15 - 772	
HMWTW46	129	703503	1 - 1437	15 - 1451	AW964211, AV715723, AI133171, BF056982, BE256492, BG179131, BF112079, AI344307, BE278346, AI002167, AW575319, AI191619, AI762132, BE326361, AA279101, BE278358, AV716566, BF939523, AA548744, BE220654, AI338615,

					Sequences
					BE278191, AV752354, BF062335, BF061703, BE221006, AI337155, AI951768, AI631961, AW166120, AW573299, AV753159, AI742696, AI148802, AA258288, AW374032, BE218733, AI659040, AA769906, BF210670, AW243138, AI458943, AA947700, AA005338, AW968472, AI131522, BE467027, AI738782, AV739442, AW971767, AA928765, AI652006, AI540795, AA947646, AI301578, AA278837, AI419304, BE221285, AI073760, BF594676, AI914313, AA704914, AA915934, AI692947, W84709, AA677001, N47492, AA704721, AA287290, AA281053, AI783633, AA259130, AA459259, AI268517, AW664821, AI038536, AW612238, AA005432, AA908674, BF195829, AI129070, AA765582, AI24191, AI073770, AA307105, AA085232, AA255496, AA057872, AA252841, AA257027, W78855, H81798, H52414, AA352940, BF246477, AW406421, AA005431, AW205813, AI422501, H52413, AA057877, AI474305, AA081373, AA357781, AA081374, BE940541, AA005339, BE831041, AA720902, AA353070, AA769172, BE940706, AA357780, AA360882, AA085163, AA744140, AA481157, AA491288, AW805923, AW136823, AA481490, AW206306, BF437272, AA215824, AW858931, N47491, AI364893, T54544, T54585, H49180, BE787366, BG180435, R81120, BF986319, AA448931, AA452418, AW750022, AI239702, AW019901, AF151856, AF161495, AK025738, AB028628, AL050261, and AL132874.
HSDIJ72	130	705030	1 - 634	15 - 648	AA034056, AV700319, AV700909, AA033868, W94349, AA827892, AI874315, AI093264, AW080626, AW974315, AI090146, BE646652, AA658056, AW328176, AA135804, AA496546, AA524121, AA411710, AI559584, N26793, AW614867, N32251, AW138477, AU149509, BF206691, AA654002, W95497, AA777148, AI026045, AA974245, AA401911, W95584, AI948932, AW027666, AA765907, AA032272, AW204082, AA078960, AA834423, AI948922, AI248636, AI814115, AI214334, AA078862, AI203938, AW953690, AI921902, AA694134, AW004623, AA062740, AI040594, AA644260, BE790426, BG106683, AI277243, AA343039, AA523862, BF914322, BF340988, AA366536, AW085486, AA406088, AW886791, AA513668, BF311155, AA247868, AA429963, D20862, AI000285, N35265, AI193674, AI890372, AW974314, BG106290, BF821760, BE408029, AW804773, AW934973, AW629655, AL080249, and AK022745.
HSLGO34	131	706987	1 - 511	15 - 525	H14987, H12917, and AA035197.
HTOIF39	132	707266	1 - 1423	15 - 1437	BE621745, BG164387, BF574824, AL045714, BF672339, AW968371, AI762887, BF589414, AA465412, AI927679, BE644646, N79630, AW131135, AI802356, N63954, AW052111, AA688055, BE049217, AI222346, AW131189, AA194362, AA455696, AA814052, AW151362, AA810129, AA417791, BF576898, AA417695, R30902, AA453295, BF693456, BE827797, BE714257, AI825696, BE714293, BE714247, BE714219, and AC004990.

HPDEF35	133	707398	1 - 452	15 - 466	AA367210, BG032330, BF218504, BF247068, BE549484, BE738862, AV735508, AV737947, AV761865, AV758973, AW609720, BG119702, AA082767, BE884717, BE254128, BE409572, AL533384, BF692789, N88831, R23418, and AF125096.
HFIAW95	134	707878	1 - 558	15 - 572	AI209130, AI125408, AA868860, AI992321, AA047463, AI968499, AA411900, AA047397, AI241928, AA412094, AL133068, AK000033, and AL022328.
HMEIU36	135	708053	1 - 1062	15 - 1076	AI377407, AW973933, AU159464, AI591053, AI140794, AA085176, AA568840, AW059669, BE328386, AU142080, BF242387, AA085250, AL533715, AL525916, BE563312, AF036035, U90094, U73167, and AF040710.
HHEDM89	136	708177	1 - 699	15 - 713	AA599042, AL109865, and AL136133.
HKABW6 0	137	709347	1 - 766	15 - 780	AW410841, BE779375, BE892790, BF220111, BE251015, AV690387, BE780842, BE910652, AU129014, BE392799, BE777827, BE960806, AA306541, AA488585, BF950625, AA382085, BE295732, AL518759, BF037466, Z28940, AL524496, AL524495, AL518758, BE552293, BF000272, BE048523, AW797906, BE044002, AI990527, AW614747, AK001455, AJ006291, and AL163279.
HWLFB40	138	710542	1 - 615	15 - 629	AU139304, BE279067, AW842140, BG179422, BE391303, BE275569, BG252992, AW807017, BE409854, and AK002182.
HDTDW40	139	710974	1 - 397	15 - 411	AL528775, BE142925, BE142928, AW847734, AW847738, BG256636, AV650935, AW847732, BF935776, BE143004, AW749636, AI907806, AW752591, AW847801, AW847931, AK026928, AB037835, AC007404, and AK001513.
HEAAK34	140	711111	1 - 943	15 - 957	BE541855, AV716189, BF676470, BF906385, H16878, R56761, Z44727, H16267, BF931516, BF931560, AA663589, BF756845, T95749, AA834548, BF154552, H09671, AA809486, R91239, N50504, and AF161420.
HLWAH41	141	711706	1 - 881	15 - 895	R98276, BG011064, BG004978, T95945, W33061, AL136139, AC012558, AC000047, AL109935, AL136298, and AL365505.
HHSFI89	142	712570	1 - 765	15 - 779	BE010994, BF373745, BF327232, BF837452, BE086177, BF891340, BF989358, AI143465, BF877014, BF988288, BF592627, BF359465, and AW894924.
HSAVI33	143	714693	1 - 1561	15 - 1575	BG104258, BE798074, BG258223, BE887659, BE386155, BF125405, BE795610, BG029685, BG109393, BE675497, BF726957, N45533, AW469532, N28230, N25915, AW269727, AI089440, AI285952, AW748001, AA160294, AI377089, AW418733, AA937876, AI305151, AI220584, AW166442, AI582936, AA809358, AA314425, AV736878, AI339629, T16389, AV736541, AI221760, AA149870, AI288351, AW402220, AI400972, N42157, N33119, AA834035, H97523, R43925, H11078, AA160231, AA033775, AA115316, AV743890, AI373714, N48680, AA149815, AV748694, AW351448, H56181, R15111, AA033774, H56398, T08901, AW181998, BE827048, AA742663, AA830598, AW516481, AA749049, N56533, AI193709, BF987116, BE410460, AW086170, AI597612, BE465550, AI457804, AI214687, AI923937, H98583, AA975955, AW005216, AA092044, AW197792, AA889532, AA133171, AW629303

BE827051, AI057342, AW779081, AI581482, AW768976, BF294063, AA134603, R19274, AW304340, AW081512, AA811951, R45717, BE827057, BF758568, BE827054, T81759, BE827047, AI018596, BF358649, AA923709, AW043965, AW606319, and AF248648.

HMJAX17	144	715359	1 - 708	15 - 722

BG261392, BF752467, AA194257, AW511409, AI912611, AI350842, AI497969, AI991928, BG109534, AI061156, AA744999, D53392, BF349631, AI680322, H11244, H07921, AI697635, T07017, AW367919, H11599, BF514837, AI610452, BF516523, AI909924, BF844285, AW151974, BG113493, AI866469, AL043168, AI872423, AI440238, AI866465, BG164558, AI539260, AI859991, AI860003, AI366900, BF525578, BG029667, AI433157, BG252929, AW151136, AI539771, AL037454, AI538850, BE897632, BF796402, AI537677, AI494201, AI500659, AI815232, AI801325, AI500523, AI582932, AI923989, AI284517, AI500706, BG166654, AI491776, AI445237, AW151138, AI670009, AI889189, AI521560, AI500662, AI284509, AW172723, AI440263, AI889168, AI927233, AI866573, AI633493, AI434256, AI805769, AI888661, AI284513, AI888118, AL036923, AI436429, AI889147, AI371228, AI440252, AI866786, AI804515, AI610557, AI690946, AI887499, AI805774, BG110517, AI815239, AI890507, AW074057, AI554821, AA480074, AI828583, BF338002, BG116926, BG261116, AI432030, AW858243, AI801152, BE878725, AW151132, AL042365, BF970652, AL045500, AI702073, AI648454, BE886728, BF766529, AI702065, AL119791, AI890907, AI698391, AL080011, BE885490, AI354998, AI473536, AL515195, AL046595, AI371251, AI866510, BE908744, BG257535, AL514579, AI923046, AI434242, BF795712, AI581033, BG170937, AI538885, AI242736, AI671642, AW151131, AL119399, BG255903, AL513913, BF811804, AL036705, BF037001, AI569637, AI440260, AL047100, BF814450, AI804505, AI648567, AI561170, AW022093, BF812961, BG178669, AI432644, AW089275, AI866472, AI469764, AI633125, BE883591, BF812438, AW152182, AI887775, AW075667, AI696829, AI590043, AI289791, AI926593, AI345010, AI818353, AI539800, AI582912, AV727264, AI687362, AI500714, AL042377, AI285439, BG033723, AI884318, AI355779, AI623736, AI491710, AI431307, AI918408, AL047422, AI815237, AI567971, AW169604, AI961589, AI431316, BE786043, AI828574, AI539781, AI539707, AI885949, AW089557, AI559957, AI285419, AI500061, AI521571, AI432666, BF982540, AI469775, AL515033, AI866581, AI619502, BG109553, AI567953, AI815150, AI446495, AI355277, AI867068, AI915291, AI225248, BE891834, BG029053, AI358701, AW050850, AI698352, AI192701, BE048061, AL513979, AL079741, BG113712, AI536638, AL514511, AW192701, AA641818, AI560184, AI499463, BF680133, AW149925, BF812963, AI433976, AI916419, AI610362, AW081036, AL042572, AL513743, AI628850, AW198090, AI916419, AI610362, AW081036, AL042572, AL513743, AI440239, AL037030, BF727352, BF814527, AL514557, BE908107, BE877142,

HLJDZ45	145	717449	1 - 836	15 - 850	
					AI637584, BG255895, AI537273, AI579901, AL049402, AL080149, AF005067, Z98885, AX040974, AK026927, AL137539, AR011880, AX040958, AL096744, AF230496, I89947, AF090903, AL162002, I48978, Y11587, AL117457, AF090901, AF287051, AK024974, AF130066, AL122101, AL137480, AX026824, AX026823, A58524, A58523, AK026592, AR083283, AK026649, AL353957, AL389935, AL137267, AL080159, AF061981, AL359615, AR038854, AF113690, AJ000937, A77033, A77035, AJ299431, AF183393, U35846, A08910, A08909, AF069506, AK024992, AL049283, AK026959, AK000083, A08913, AF177401, AK026506, D83032, AF285167, AK027096, AF130055, AK024588, AF087943, AK027103, AL117435, AF119860, AB029065, AL137523, AB048919, A08916, AL133049, AL133070, E02349, AX020124, AK024855, AF090900, AL110224, AK026542, AL359941, S63521, I46765, AF111849, AK027160, AF116631, AK026534, AL162083, AL122049, AF119899, I33392, AK026642, AF143723, AL137271, AK026744, AK026630, AL133075, AB052200, AK000391, AF004162, AL133113, AF130110, A03736, AF182215, AF104032, I48979, AK026086, AF116609, AK027164, AB038698, AF130082, AL080148, AF047716, Y10823, AF119865, Z82022, AK026749, AX019230, AL133080, U30290, A08912, AF019298, X82434, I89931, AL137478, AK026885, AL137459, AK025119, AK000257, AL122100, U87620, Y14314, AL050393, AX019229, AK026462, E12747, AK025889, AL389939, AK026408, AR087170, AF090934, A65341, AK025339, AL050149, I09499, AL133568, AL137560, AF155148, AF314091, AF113019, AK000418, AL390154, AK025632, AL049300, AL162062, AL023657, AL080126, AK000653, AL133112, AL110280, M92439, AF081197, AF081195, AK026647, AF067728, AX042059, AL359583, AF130105, AL137533, AK025465, AL389982, AL122121, AF106862, AF271350, AK000310, AF091084, AL050277, AF116676, L13297, AL359596, AF126488, AF185576, AL137550, AK026600, AF116682, AF175983, AK026532, AL133560, AL122110, AK026533, AF117959, AK027113, Y16645, AL137557, AF119875, AL049430, AB050510, AL137530, AK026045, AF141289, AF119909, X63162, AF119859, AK025092, AF153205, AL117460, AL133557, AL049347, AL110221, E06743, AK027142, AK026855, AL353940, AL122118, AL050138, AL133606, AJ005690, Y10655, AL137283, AB051158, AK000432, AK000103, AK000212, X84990, AK025435, AB052191, AL137488, AR034821, AL137476, AF130059, I00734, AF002985, AF119337, AK027114, X87582, AF119896, AF218004, AK027082, X70685, AF116654, AJ238278, M86826, A93350, I30339, I30334, AF130077, AL137558, AK000323, E00617, E00717, E00778, AX010492, AL110225, and AF106657. BF057682, BE551358, AI870472, BE348347, BE220620, N92013, AA481286, AA235512, D59403, W88874, AI167596, AU137366, R10048, R49500, D31111, D31113, D80100, AA236698, BF916715, AU123868, AU123868, AL134153, AW392669, AL134132, AF155112, and

Gene	No.	ID			Sequences
HAHBC57	146	718574	1 - 467	15 - 481	AK001994.
HLYDR60	147	718768	1 - 816	15 - 830	AL518503, BE794141, BE246462, Z25363, BE246431, BE244577, BE393376, BE378295, BF355272, BF761359, and AC010271. BE794685, BF685787, BE559983, BF685796, BE901125, BF307363, W73305, BG032061, BE873880, BE908758, BE884244, BE383845, BF797375, BF685559, BE728296, AW247236, AW131606, BE743302, AI339295, BG250395, BF678238, BG025457, BE728684, BF945968, BG027834, W51974, AW247847, AW966049, BE222587, AW027873, AV721989, AV721557, AW675648, W73040, W42520, AI817056, AW300280, AA121659, BF593810, AA365379, AA134508, AA524058, AA412645, AI026068, BF740089, AI480061, W16993, AA479840, BE904614, AI754885, BE834332, AI352460, BF693306, BE502119, AI363176, AA327589, BF108596, AA779872, AW673295, AA130538, AW025075, BF926042, AI022138, AA580472, AA379467, BE897396, AI300897, AI361310, AI338260, AI167748, AA535710, AI355996, BF196715, AI421227, AI797313, AA479718, AA536001, AA962145, AI085885, AI220550, AA373842, W42443, BE048034, AI335751, AA364113, AI312029, AA719318, AA412522, AV709718, W27857, AA719209, AA471180, AI309990, BF575516, AV706626, AI439502, AA215620, BG178778, W48677, BE699918, AW438416, AW015615, H38544, AA733051, AW963938, AA626066, AI648361, AA852416, AA770281, F35909, AA747411, AI818184, AA094707, AI263330, AW009191, AA215438, AA996110, AI241132, AI906614, BE832963, AW075282, BE170593, AF151888, and AL121938.
HCHMQ09	148	719977	1 - 455	15 - 469	BE613615, AK025890, AK025426, and AB052134.
HADMD75	149	720237	1 - 473	15 - 487	H29006, AA533117, AW409667, AI341147, AI681129, AI433410, AI955317, BF058231, AW341107, AU154665, AI885266, AI027623, AI692534, BF061372, AI808909, AA099037, AA778251, AA923181, BF222564, AI276678, AW474492, AU160729, AI986154, AW135263, AW968197, AI420387, H09118, AA659407, AI347168, AA404602, AA905366, AA868124, AV722317, H11272, BE300278, AA503263, AW137535, AA365338, AA402925, AA404732, AI675497, AA468344, AA405418, AF116574, AB014534, AK024064, and AF116573.
HKADW47	150	720269	1 - 684	15 - 698	AW502825, AL133572, and AB031230.
HFAUL30	151	721084	1 - 598	15 - 612	BF237693, BF237493, BE910607, AI432454, AW081785, AI436367, BF107426, AI191303, H27059, AI797479, AI188727, AI554783, AW970445, AA513753, AI090223, AI833007, AI886832, AA927473, BF764960, AA400632, F26406, AI148002, AA676886, AI142293, AA740345, AI815728, AW955899, AA536076, R07547, BE408046, BE276764, AA400317, BF944449, AI336523, BF025828, AA978356, AI017725, AA468753, AA639692, AV701120, BE615920, R07494, AI128273, AA724081, N41692, BF378717,

Clone	No.	ID	Range 1	Range 15	Accessions
					AI879456, AI500369, AA252085, AA368986, AW368694, U75998, AW363134, BE695889, AA633704, AI815926, AA947905, AA199605, AA838338, AA707248, AA931186, AA670492, AA811357, AF202331, AW225341, AA542849, AA353038, BF978324, AF261688, and AC007400.
HKADD23	152	721126	1 - 632	15 - 646	BF315291, BE267287, BF315497, BE409386, BE727973, BE547473, BE254803, BE903798, AW958022, BF211629, AV742567, BF030620, BF129983, AW161511, BE886469, AA156149, BF242212, AA461616, BG167446, R20826, BE314226, BG253099, AI738546, T32235, AW993447, AA318338, R20384, AW957658, AV711296, BG110799, BG105200, BF509227, BF058787, Z45686, AA453377, AA328523, BF105125, R14248, AA075653, H10803, T30405, AW027919, AA482042, BE159472, BE159566, N55717, AA453972, AV712723, D58774, AI952258, AA453279, R60405, AA902471, BF208352, AW009749, BE904453, BE080502, AA461443, AW248974, AA236036, BF958143, BF229761, BG000176, BE699400, W58220, BF447253, AI088211, AV714273, AW768492, AF151826, AK025884, AF037601, and AL137283.
HE8MO09	153	721141	1 - 508	15 - 522	H23031, AA331581, BF366206, AA332819, AW938036, AL352979, AL356020, and AF045022.
HE8FL67	154	721418	1 - 579	15 - 593	BF795551, AV750730, AU127443, AW504749, BG119102, BE392473, BE540551, BG177251, BE018501, AU124097, BF589465, AI000771, AW613130, AA860505, AI637664, AA385917, AA884192, AA810287, AK022818, and AK022558.
HEOOA49	155	722648	1 - 587	15 - 601	R15032, AL534035, and AL536176.
HMSJH49	156	722943	1 - 588	15 - 602	H85811, AW803024, R85057, BE260893, BF919286, BF897158, BF762192, BF762184, AA078293, BF910909, BF326115, BF379108, BF316947, BF935452, BF999044, BF814195, BF822246, BF904758, BF985732, BF919287, BF814194, BF897159, AW800319, AW800296, BF326439, N43800, AF208291, AF207702, AC073184, AF170301, AF273680, AF208292, AF170302, AF144573, and AF077659.
HARAX45	157	723491	1 - 1318	15 - 1332	AA057431, AW960708, N32151, AI125765, AI125765, AA436463, N36198, AI082017, AA047763, AI806698, N24164, N24756, N22835, AI092759, AA318287, N31576, AI216856, AI082301, AA015986, AA054280, AA609296, W96296, AA436511, N72140, W00409, AA490273, AA490373, AX032551, AX032553, and AF071787.
HDTES50	158	724196	1 - 423	15 - 437	AW340512, AI807894, AW963850, BE885860, BG105462, AW082409, BF351584, AW054749, BF508549, BF508665, AW593064, BF365625, BF365626, R94399, AC008772, and AC025442.
HKGBC30	159	724352	1 - 661	15 - 675	BG035611, BG035535, BG166365, BG177010, BG178383, BE748164, BF031940, BF576496, BF667259, AW957446, BF970907, BF969397, BE737557, AA195158, BG029795, BF989378, BE737837, AA243408, BF672780, W42956, BE784012, D79834, D79740, BF742804, AA456700, AV688175, AV692424, AI337976, BG122569, AA456532, W78894, AA397777, AA242916, AA373082, H79467, R80629, BF516139,

					D79679, BF131434, BE772150, AA304747, AW846336, AW375604, AI961425, AW959662, BF036652, AA160349, AA195029, AW375609, AW375470, AI826719, BG113642, AW751979, BF909045, W25422, AA159869, AI078789, BG251904, BF909852, BE645639, BF909048, BF908167, BE738443, H79246, AI279715, W47528, AA731913, AA723821, AI271712, W84668, AI274822, AI276459, and AA478098.
HKIXO37	160	724432	1 - 486	15 - 500	AA258991, AA287202, AA148138, BF513439, H44277, BE873001, AA134264, AA459315, BE244273, AW294863, AW798207, AA278370, AI566279, AW968424, AA278138, AA769400, AW968318, AA742355, and AK027028.
HTLFI39	161	724950	1 - 571	15 - 585	BF753854, AF053356, and AF174604.
HEQBJ81	162	725228	1 - 1417	15 - 1431	AL526015, BE902251, AL535577, BGI19712, BF795162, AI972730, AI670995, BE385522, BE781482, BE867114, AI675678, AA399402, BF131361, AL525964, AI936663, AI805772, AW963715, AW005423, AI884407, AW083827, AW954601, BF196259, AU131935, AI933357, BE967468, AI277095, AW276015, AA447620, AI697985, AI912309, AA233630, AA069925, AA448020, AI192598, AA947274, BF511366, AI201913, AW675389, AA422152, AA448454, AU076532, AI199457, BE770857, AI222722, BE221191, AI933308, AI285314, AW299680, AI933319, AA009713, AI039091, AA694501, AA594398, AL535578, AA156783, BE549586, AA599751, H80269, AA070017, AW276004, C02912, AI498681, AI273260, BF448335, BF755788, AA938654, AA398362, AI564858, AW081385, H80365, BF433555, W23160, AI433696, AA635653, H09156, AW611985, AW512416, AI003286, AU153586, AI338001, AA350419, AA298504, BF885316, AA827591, AA809864, AA460451, R40317, AA297589, AA463393, AI261957, AI264460, AA297851, AA991627, AW952374, AI122589, AA809865, AA100151, AA338738, R44669, R13235, AA352547, BF476212, AA555202, AA325687, R41569, AW162831, AI940474, H09213, AI940457, AA082600, AI940491, BF932644, AI940480, AA302916, AI267918, AW952768, BF001386, AI473741, AW779351, C03526, R19419, AA009823, AI352026, AW301607, AI940485, AW379612, AA156852, BF340250, BF062888, AI189426, R36750, AW875742, R15147, BF922047, AW875677, AW875689, AA666086, AW162723, AA340305, AW387133, AA471272, AW373384, BF247476, AA091173, AL040390, AA678873, AA987875, AI923061, AI383804, AI360195, BG257545, BE011885, AI888956, AA437293, BE966404, BF796402, BG033906, AF040707, AF131207, AF040708, AC002481, Z66370, AK026603, AF254119, Z48796, A49118, AL137555, AK025549, AR008521, X69711, AL133093, AK027114, AL137539, AF192401, AF192402, and AF217967.
HAGES18	163	725655	1 - 654	15 - 668	BF966458, BF671990, BF692987, BF672825, BF126207, BF672860, BE278557, BF695073, BF576696, BF575966, BF672017, BF670459, BF576056, BF672797, BF672709, BF790889, BF671326, BF671275, BE971388, BF671415, BF671804,

HHSGV20	164	725822	1 - 912	15 - 926

BF672665, BF574253, BF574870, BF574911, BF672284, BF673062, BF574843,
BF695099, BF576341, BF671520, BF672453, BF672612, BF673018, BF694661,
BF695215, BF670363, BF574724, BF575245, BF694964, BF672647, BF575621,
BF575611, BF672159, BF574983, BF577006, BF670423, BF672379, BF575741,
BF575626, BF670636, BF576075, BF790444, BF672379, BF672700, BF671585,
BF672234, BF575200, BF575647, BF575471, BF672014, BF577028, BF693656,
BF576598, BF694869, BF671617, BF671443, BF671115, BE018510, BF693272,
BF576176, BF575630, BF672859, AL533461, BF790867, BF576262, BF671796,
BF576923, BF670282, BF789957, BF574159, BF670829, BF575971, BF574636,
BF670491, BE733819, BF670790, BF790838, BE969918, BF574822, BF207645,
BF673114, BF670591, BF575253, AA196936, BF790495, BF208011, BF105281,
BF576728, BF671430, BF126405, BE568532, BF671862, BF576326, BE866564,
BF576606, BE564325, BF672465, BE967564, BF577181, BF673070, BF575476,
BF576128, BF692821, BF670926, BE564826, BE732617, AL533199, BF790734,
BF694889, BF692913, BF670649, BF789989, BE380150, T80234, BF694559, BF576530,
BE568846, BF208829, BF791128, BF694585, BF695292, BF570751, BE866290,
BF574539, BF693087, BF031510, BF695222, BF694370, BF576549, BF029400,
BF575370, AA193133, BF694481, BF693258, BE537668, BF693691, BF693398,
AV754040, BF825169, BF673925, C15922, AV729281, BF574550, BF693473, W68781,
BF574875, BF692911, BF693339, AV725869, AA100508, BF693401, BF671250,
AA341035, AA111869, W27023, AA196311, BF791087, BF670819, AA192599,
BF575764, BF574531, BF789918, BF692868, AA329773, BF695212, AA307342,
BF790642, BF126139, BG109465, BF033622, BF034364, BE080952, BF130487, N55351,
BF574105, BF671234, W19258, BE080786, AA088462, W68688, BE763621, BF693360,
T71810, AA081840, AV702687, BF749150, AA303835, BF790177, W48742, BF952838,
AW995369, AA131123, BF692768, N31239, T81226, BF965794, BG114654, N23613,
AA371486, BF209625, AV747236, BF790651, BF699457, BE566199, BF671762,
BF670941, BE259158, R96423, BE080807, AA076201, BG168165, C14200, H96142,
BF671114, BE694253, N77358, BF725117, BE007854, AW995367, BF570468, BF693136,
BE738965, BE379711, BF687772, BF576739, BF573934, BF245036, BF031142,
BE873739, BF346570, AW897156, BF574980, W47036, AA021021, BF672048,
BE868496, AF125103, AF077050, AF132048, AF177332, AB049853, AF087901,
AR028522, AJ251385, AJ242963, AF051335, AJ251384, AB040463, AB015639,
AF148538, AF132047, AF320999, AJ251383, AB020693, AB040462, AF148537,
AJ242962, AF132046, AF132045, AJ242961, AR028524, and AA192565.

BE222636, AI961104, BF436334, AI884733, AW246570, AW028772, AA888944,
AI937479, BF436910, AI148511, R17483, AI986047, BE645600, BF958197, AI670139,

					BF115307, AI651793, AW028535, AI972738, AI026845, AI797316, AA932228, AI818634, AI200838, AI767264, AI885011, AI651316, AW294043, AA351410, AI864915, AW956099, AW016371, D51213, R52574, AA304817, BG055746, AA325568, R42830, BE503876, AI871615, AA989336, AI637493, AA890222, AA351409, BF744896, BE622127, AA338951, R40721, R43297, R52526, T46991, BE622940, AA932798, BE504323, C14248, W52698, Z25285, BE670403, AW953345, R61467, AA365030, T46990, AA323378, C14217, AW304747, AI198190, AA757552, AI765583, AA716499, AA757803, AW952645, AI439830, AI491767, AI869586, AI336473, AI310488, AI368168, AI493465, AI343940, AI346860, AI189795, AB025186, and U51204.
HNECD53	165	727386	1 - 785	15 - 799	AL520253, BG113028, BE730840, AI692661, AI990927, AW576597, AI962731, AA151527, BF434287, BE551582, AA116092, BF063262, AA131002, BE466704, AI476250, AA626414, AL520254, BF223994, BF222968, AI638682, AI916526, BE048577, AA149442, AI686680, AI935593, AI201967, AA102766, AI963503, AW081527, AA286819, AA152283, AW273367, AI417694, AA150292, AI568034, AI624896, AI004236, AI446535, AI951797, AA625892, AA152451, AA101789, AA749172, AA116091, F24340, AI766979, BF445475, BE925564, AW958934, AI266738, AA384642, AA101790, AA853900, F35702, AW594388, AW137428, AI948855, AA897651, AI950455, BF917243, AW771964, BE163846, BE163852, BE163816, BE163659, AL533758, BE393501, AI089160, AA669642, AA488151, and AK022498.
HRAAO53	166	728064	1 - 549	15 - 563	BG180300, R14303, BG180366, Z45229, AV716542, AA827229, and AW977731.
HIDPGD34	167	728098	1 - 850	15 - 864	AU133208, BG255170, BF346276, BE396319, BE719458, BF326883, AW499756, AI929577, BF343013, AA331962, AW501305, BE072706, AW501302, BF365052, C18077, BF335090, BF335074, BF335077, BF335088, BF335075, BF335078, BE072813, BF335091, BE926894, AV748888, BF910717, BF373903, AW996974, BF795573, BF476128, BF476077, BF575671, BF743862, BE245226, AK001718, AL080250, and AL162046.
HLYBU12	168	728763	1 - 757	15 - 771	AV711357, AA024565, AA454227, AW450093, AA426141, AL515137, W86795, BE894727, W87294, N92155, N46587, AA025318, W03644, N58008, BE893334, BF589668, AV726302, AA453645, AA345255, AW593927, BE672946, AA812729, AI915387, AL110420, AW664342, AA122344, AW770845, BE328340, AI743045, AI869288, AW771192, AI017204, R38111, AW974592, AA174165, BE768909, BF967003, F09335, BE788737, AW263305, H63885, BE622642, AA454228, BE088462, BF436458, AW304194, AA768532, AI138879, AI860270, AI374771, AW514315, AA811368, AW451628, AA972721, AA668674, AI627681, AI138747, AF113539, AK027258, AL136504, AF225981, and AF181121.
HEONV59	169	728861	1 - 963	15 - 977	
HCWHX5	170	728903	1 - 431	15 - 445	AC034291.

4	HE8DF23	171	730794	1 - 1567	15 - 1581	AI300116, BE296377, BG032463, AA908994, AI797802, AI383991, AI769393, AI377409, AI679192, W20029, AI954824, AW003222, AA423876, AI005307, AA885021, AA423838, AI590304, AA831018, AA877137, BF056260, N20924, AA830153, BF110964, AA889975, AA749009, AA261973, AI290190, AL042957, AI274997, AI761710, AI302355, AW104248, W58202, W58311, AI096394, AW015642, AA595487, BE258855, AA907686, H21773, AI632773, H21774, N91489, AA757789, AW242726, AA115494, AL042260, AI872868, AW576488, BE090133, and AL513865.
	HOECO53	172	730924	1 - 426	15 - 440	H46855, AA522937, BG168461, BG166970, BG034696, BG030159, BF971167, BF968107, AW327347, AI878995, BF382241, AW161124, AV744127, BF381820, BF029990, AA285085, W31692, BG031029, BG112033, BF030176, AA420715, AA305038, AA479559, AV735500, W51849, BF213193, BG113339, AA428036, AV710467, AA315675, BF793677, BF683278, BG163707, AL535052, BG028333, AA310999, BE909361, BF700007, BF977675, BE256879, AW583586, BF103812, BF183860, BG114558, BF541112, BF132139, BF184956, N98945, H49687, BF664599, BF827777, BF674463, AA121183, H50194, BF571367, BF032082, AI767547, H42256, AA298525, BE878076, BE047828, W79179, BE546966, BF213270, R96272, BF130738, AA136783, BF339338, H44205, T53397, BE879546, AA296778, AV747127, BF677752, AW083308, AA203752, AW405858, BF665269, AW081643, AW130434, AW131295, AW131303, AA479535, AI955122, AW301038, H51483, AA416837, AA082396, BE744389, T54405, BF977978, BF887309, BF887298, BF540976, BE789337, AI672869, AI422293, BE855465, AA633512, AI028278, AI351044, AI281194, AI560983, BF696827, BG149478, AA296829, BE788872, R50013, AA843796, BF084344, AI138248, AA477638, AI097413, BF381764, BE936616, C02084, R47812, AA516519, H49594, AA496596, AA563931, BF879230, R82586, AI056143, BF676451, N44055, R66527, AA297953, AW055043, BF879163, BF821422, C02981, BF218736, AA046382, AA910282, H45625, H45628, AA813514, BE220255, AI912595, AI301158, BF870347, R28130, BF477346, AI418360, BF883168, AA284914, BE826706, AA416688, AA705272, AA722082, F25958, AA055293, AI042242, AI348253, AI879494, W52111, BE826711, AI346869, AI298347, AI302881, BF700730, BF344686, T52195, BG026325, BF879420, AW799874, AI184088, AA420761, AW236255, AI814753, AA976549, W74425, BF247545, AA862704, AW438834, Z32877, AI073646, AA719502, BF792335, AA580072, AA402862, BE834154, AI718735, R66528, W04524, AV735518, F30163, AA428813, AI301336, AA496548, BF879226, AA992419, AI339223, H46769, AI866642, AA873692, AI394058, AI338648, AI264131, H50195, H42257, H44206, AX014159, and AF161372.
	HDFAB91	173	731889	1 - 1381	15 - 1395	BF529864, BE901775, AI589804, BE901042, AI199313, AI636756, BF061809, AI337174,

					AW003271, AL537767, AI363474, AI638061, BE855432, BF475260, AI653749, BE671333, BG056706, AI567434, AW235236, BF928391, R45347, BG055696, AA478099, R40001, BE551927, BF056286, AW138571, AI650862, AI202114, AI014634, AV725034, AW956241, AI263752, BF061875, T85446, AW071773, AA931156, R20686, AI220130, F11755, AA398006, T85350, T65494, Z43537, AW235434, R18850, BF949034, BF948468, BG056329, BF337317, BF530877, AA757698, BF957193, AI919390, BF963555, F09414, T65418, BE698921, BF528815, R72245, AA436146, T07423, BF957139, AW103587, AW966245, C20849, T08857, AI928679, AF177909, AB046649, AF190699, AF190991, AC008746, and AC008746.
HWLER32	174	732236	1 - 762	15 - 776	AV727577, AV727747, AV751004, BE466427, N72652, R11459, H93882, and H56112.
HNFJE71	175	732600	1 - 525	15 - 539	BG177946, AA355750, and AL162742.
HOUHA56	176	732902	1 - 660	15 - 674	R59681, BE739214, AV653666, F11197, AL119365, Y11395, AC007970, AJ295233, and AJ131111.
HMSHT01	177	733800	1 - 1410	15 - 1424	AI300571, AW977948, BF059278, AI147472, AA443155, BE550035, BF351043, AI042026, AI681058, BF062259, AI131220, AI459011, BF059415, AI197871, BF754233, AV686297, AW440428, AW474309, H97980, AA443154, AI744542, AA811321, AA999772, AA340754, C01465, T32373, N69094, AI655756, AV692251, T07877, AI699053, AW473679, AI914905, R33958, C15945, AV727008, AV709207, AV725904, BF360851, AW903008, AA342134, AW051949, D45335, BE079651, N94000, BE079652, BE079654, BE079653, BE706483, BE150729, BE150748, AW843293, BE150732, AA326399, W38404, AA134959, T06598, AL031670, U91326, AP000008, AC004955, AC007050, AP001713, AP000036, AC007957, and AP001759.
HAPQM57	178	734582	1 - 493	15 - 507	R14061, BF508040, AI521991, AA765567, AW083045, AA704823, AK000761, AK024668, and AF252293.
HSLJK58	179	735584	1 - 1152	15 - 1166	AW378251, BF349814, AA687791, BF739001, AW378183, AA661723, H61383, T88677, AA443169, H62404, AW339864, AA458622, AA252063, AI129690, AW960791, AB006755, AB006758, AB006756, and AB006757.
HSLHL67	180	735747	1 - 716	15 - 730	BF919975, BF884698, AL042074, AL514302, AU126919, BE541256, AL044278, AI910012, AK025896, AB020699, AC003030, AL110250, and AK001349.
HCEMF51	181	738228	1 - 1229	15 - 1243	BF346427, BE222972, AI096636, BF055324, AI202026, N36813, AI700474, BF057448, R86180, AA836670, AI950873, AA747515, AA004893, BF929417, F28396, W57715, T09465, AI032682, BF929409, N52926, AI347667, H65793, N62496, BF819684, AA037619, BF928446, H96052, AA053692, AA335101, H66550, BG013276, W22675, W57695, AI742940, AA037618, AI023952, T30975, AI053553, T35776, AI205934, AA099655, AA053250, AA323307, AA468760, AA468791, AI190834, D58267, AA847679, AA131306, R24607, AI537601, R34823, H80658, AA468740, N79396, AA004617, AW592215, W21585, BF507721, R24507, AA419572, C18786, N46031,

					Accessions
					T95645, N93701, AW272964, D20268, N53988, AV735414, AA367920, R97294, AA182424, H73748, T07569, BF997014, AL161725, AC011479, AC004847, AC005387, AP000512, AC002369, AL138759, AL031291, AC004999, AC005694, AC007666, AC018633, AL021391, AC011453, AC004212, AL132987, AC007934, AC002425, AF092852, AC000052, AC011475, AL096791, AC005098, AC009244, AL162430, AC004929, AC004867, AL034400, AC004971, AL049759, AB011099, Z84487, AC016554, AC012309, AC005527, AC009079, AL031657, AL133269, and AL133418.
HTHCV59	182	738569	1 - 380	15 - 394	
HCHCI12	183	738911	1 - 644	15 - 658	BF724366.
HOEAU34	184	739003	1 - 933	15 - 947	AI814233, BE789008, AI923689, H22593, AI924315, BE893732, AI672395, AW003558, AI139636, AW001296, AA341901, H52836, AA610203, BE292891, AI283870, AI950194, AA581497, AA772635, H20778, AA632417, AI982883, AW014256, H52837, AA401724, and AF191740.
					BE785762, BF034740, AW291367, AI952290, AI224111, AI685688, BE884900, AW589720, BE879572, AA938159, C75518, AI917337, AA515763, AI672754, AI621127, AA025315, AA626110, AI280349, AA969438, AW593805, AI672755, BG180786, BF827581, AA604068, AI419267, AW468928, BF827580, AI376319, AW878491, BE046125, D56320, AW601519, AA024562, AI459035, AW796648, AA905143, AW363984, BF794861, AW173597, T10751, AI858736, BF513839, AI583886, AL035423, AL050405, AF151837, AL109799, and AF078865.
HFASN59	185	739048	1 - 472	15 - 486	W72633, W85825, AW292870, AI566776, AW300800, AA704967, AW769522, AW270719, BF056849, AI933210, AI955865, AII39323, AI970515, AW008498, AA102083, AV707325, Z40506, AI634473, AI637497, BE855675, BF794262, BF794268, W21929, AL161954, and AB033092.
HLHCU82	186	739503	1 - 589	15 - 603	W81266, AV715086, BE886885, AU129709, AI147438, AW958065, BE748304, BF924130, Z43756, AA076164, BG257398, BE748368, AW900549, T30492, BF963791, R31521, R39748, BF747729, AA164492, AA164408, AA165265, BF963446, AW169232, AA362001, BF961893, AA164486, AW857222, AV715737, AA169420, AA286803, R24661, BE548583, AA173493, AL049970, AK001522, AX014818, AF081567, AX015051, and AC004073.
HSDJN50	187	740786	1 - 3289	15 - 3303	C16311, AV744803, AA617936, C16288, C16312, C16299, AA378304, AI908796, T03242, D57193, AI0277, and E00105.
HMAFMO5	188	741055	1 - 830	15 - 844	AL135000, BE615660, BE615163, BF591100, BG031141, and AI004500.
HKAAA18	189	741128	1 - 615	15 - 629	BE886885, AI147438, AV715086, W81266, AU129709, Z43756, BE748304, AA076164, BF924130, AW958065, T30492, BE748368, AI312945, AA173504, AI826803, BE865502, AI984591, BE504702, BF963791, AI692671, BF033188, AU151786, BE748892, AI691035, AW188216, BG257398, R31521, BF747729, BG252418,

					AA740828, AA054507, AA481199, AI569223, BE858405, AA814187, R39748, BF513375, BF028590, BE856745, AA164409, AW900549, BE565650, AW169232, AA115066, AI808045, AI990010, AI951348, AA504621, R76739, BF961893, AA164487, BF033353, AA457403, BE548583, AW080568, H96862, AA169281, AI219805, AA811266, AI222468, AI672331, BE565131, AA287650, W67151, AI680571, H03576, AA328319, AA115461, AA362001, AA054370, AW613600, AI619506, R76400, AI978796, AW771812, AK001522, AL049970, AX014818, AF081567, AX015051, and AC004073.
HISCL61	190	741659	1 - 470	15 - 484	BF981512, BF796581, BE085286, BF332149, AA931819, AA973582, AA429312, AW973153, AA536132, BF768310, AF103939, AL096717, AC011480, and AK026616.
HAGDA61	191	741921	1 - 479	15 - 493	N28519, AL527398, W20154, AW835447, and BF357837.
HFIIO11	192	742518	1 - 1413	15 - 1427	AI806322, BE670799, N39385, AA969265, H12301, AW172368, AI635117, AW080319, AW073584, BE047461, AA071517, BE326673, BE672127, AW663394, N25209, AA934833, D60357, N73795, AW959297, AW591719, D60791, D60969, AA812106, AW074902, AA295000, AI913551, AA082339, Z45740, R40302, AV707810, AW449764, AW444857, AW297753, AV704312, AI472249, AI351162, H20050, AI268635, AW439652, AI380998, AI400441, AI383449, AA887902, AI028684, AA884559, AA994343, BF222104, AI866171, AI272928, BE350212, AI739164, AA370008, AI245979, AA868556, AI686138, AI478243, AW268613, AW272433, AI826470, AI122571, BE044560, AI290558, AI961527, AI963996, AI638283, AW051659, BF115914, AI823779, AI572734, AW235551, AW300029, AA071493, W81652, AI685265, N57910, AI400267, N99422, AI139467, BF223805, BE672889, BF223097, AW418679, AI969296, AA235834, H81010, AA722836, AA410211, R17911, AV683000, AI806668, AL117332, AL110196, AF220187, and AK025476.
HUSGB32	193	742690	1 - 827	15 - 841	AL520187, AL531563, AU132580, AU130799, BE882122, BE879478, AW160955, BE892389, N77502, T95386, AI272187, AU130009, T18576, AW856046, BF890940, BF891385, BF947987, R02677, AK001628, and AB007952.
HTXED15	194	743383	1 - 429	15 - 443	AA528482, BG258358, AW580060, AW384232, AF231919, AB011111, AP000268, AP000102, AP000033, and AP001713.
HCFMF12	195	743426	1 - 467	15 - 481	AI393223, AW137697, AV693339, BE551063, AI690236, BF972414, BE888288, BF382441, AV759369, BG034953, BE327195, BE895010, AV689381, AL536781, N89398, BE313508, AI159746, BE870346, AA838632, and AC022201.
HSSJG62	196	744278	1 - 690	15 - 704	BE275282, BE794760, BF828003, BF792569, BE563242, BE048058, BE264558, BE889229, BF317326, BG178267, BE383623, BG169600, R84523, BE973549, AW963822, BE048059, W90260, BF238287, BG249725, BG169750, H24191, BE388727, BG254946, BF573589, BE503382, W15480, BE742218, BG169751, AA877146, AI919155, AI553967, AA731875, AI219434, AI418622, BE396041, AI203295,

Name					Accessions
					AA926893, BE221867, W47042, AW295052, Z20937, AA375718, BE908386, W47041, AW881536, AW881535, Z44525, AA054582, AI651689, AW628222, AK000218, and A74618.
HFIHF63	197	744330	1 - 753	15 - 767	BF515002, AW182823, BG149845, AA010826, W95509, AI378016, AI420515, AI669104, W95412, AW297177, AA782437, AA011202, AI869000, AI702739, AA450119, AA889785, AW838926, AA255554, AI291551, and AV710402.
HMDAG54	198	744453	1 - 1308	15 - 1322	AA885450, AI743800, N56997, AI434796, R54589, AA838013, AA972237, BF529879, BE767116, AA034159, AI339777, N32915, N92879, AA568992, AA837929, AW602025, R39403, AW004682, AI589399, AA971945, H01140, N47381, N42057, BF993812, BE701705, BG011684, AA375505, AW963809, H72112, AA404257, H72214, W25626, BE872782, AA404707, BE698928, BE698972, R12941, AW889999, BF346329, and AB023186.
HCHMI51	199	744616	1 - 596	15 - 610	AW163744, AL518997, BG116858, AW411274, AL519081, BE299314, AL516014, BF206119, BE207665, BE253757, BE893138, BE315068, BE731840, BE273432, AW239225, BE206818, BG026004, AL536767, BE314646, BE793733, BF314320, BE256738, BG250428, BG037134, BE791233, BE870505, BE264445, AL533915, BE796325, AL516728, AL535892, BE794527, BE898620, BE740410, BF689369, BE254767, BE301933, BG116860, BE794941, BF205402, BE383589, BE905181, BE905182, AW160342, BE315054, BE793880, BE407320, BE740904, BE740140, BG026322, AL515122, BE383890, BE293920, BE741879, BE901598, AW249063, AW248313, BE299034, AL533320, AL533414, BE390596, BE390600, AA173214, BE019059, BE205763, BE336828, AA221020, AA082515, BF968775, AW293274, BF382705, AA191088, AA375893, BF037948, AW298594, BG164333, BF038894, AA093111, BF887454, AA580476, BE264102, BF981356, BE907690, BF206149, BE777904, AW247691, BE088651, AX013736, AJ276485, and AC011666.
HAHEA63	200	744726	1 - 517	15 - 531	BF740305, BG008977, BE882802, BE732895, AA513222, BF769244, BE733610, BE900359, BE735361, BE731047, BE900400, BE280702, BE280260, T06970, BE279426, BF761620, BE891122, BE868552, BF811619, BE531137, BE410023, BE884431, BF038337, BE735209, BF035340, BE903339, BF839400, BE391834, BE246266, AP000356, AC009287, and AK025242.
HAJAN63	201	744831	1 - 562	15 - 576	BF211669, AA190358, N32552, AA233943, AW592432, AA453596, BF107263, BF802429, W03366, AA454131, and AL445493.
HSRFP52	202	745408	1 - 1307	15 - 1321	AA789332, AW469963, AI925535, BE669814, AI925543, AV728348, BF732842, BE080915, BE670545, AI685010, AI690167, AA570056, AA470465, AW969303, AW770920, AI634463, T95424, AW003925, T95333, AW080646, BG179881, BF310921, BE617765, AI468303, AA312696, AW268987, AW962841, AA356443, BF690832, AA311608, AA682679, and BE962309.

HCHOH38	203	15 - 904	1 - 890	BF035194, BE747413, BE742498, AW955374, BE278879, BE255037, AL036511, BF346168, BE745997, R35141, T09059, AW675162, R53360, W52313, BE832849, AW881228, D58601, BE613931, BF360548, AA227833, BE904123, AL529226, AW675247, T31282, BE707890, AW674880, BF762613, H08615, Z43881, BF958024, BE175335, BF956636, AB026894, and AL080083.
HMSBS61	204	15 - 1151	1 - 1137	AW962762, AA056485, AA256728, BF676173, AA044899, AA152263, BF724264, AA833748, AA761514, W67990, BG180100, AA533357, R25725, H14406, AV649750, AA370304, R21676, AA749192, BG253897, AW137063, AA332425, AA906615, AA609380, AA707774, AA767523, AI473912, N32366, BE046443, AI250014, AB020656, AK000187, AK024348, AF161542, AX017216, and AK024212.
HNFHK32	205	15 - 1013	1 - 999	AA044687, AA056651, AI130924, AA150290, AA044899, AA150588, AV649750, AA833748, AA056485, AA152263, AA761514, AA906615, AA767523, AW962762, AA370304, AK000187, AK024212, AJ250014, AK024348, AF161542, AX017216, and AB020656.
HTPCT63	206	15 - 557	1 - 543	BF205650, AW957197, AW954542, AV698342, AV688020, AA491052, T33088, AA287563, AA007576, Z45821, AW996840, BE539893, AW378973, AW378977, BE294195, AW663291, BE081286, AA188797, AW075763, AI907226, AK002065, AK023416, AK022659, AB019602, AB019494, AL137726, and AC008925.
HE8NL29	207	15 - 729	1 - 715	AC011077, AC011077, AC011077, AP002381, AP002381, AP001016, AP001016, and AP001016.
HTTFM66	208	15 - 435	1 - 421	AU136930, AU124766, AA147472, BE262742, BF791639, AA490803, AL049745, AK001269, AL354612, and AL354613.
HE9EM20	209	15 - 2808	1 - 2794	AL521540, AL521539, BF724865, AL043617, AW612138, BG026803, AA490652, H49906, BE884132, BF576441, AA211731, AW340639, AI863590, BE960872, BE463538, AA490653, BE071845, AW820883, AA181029, AI858386, BF197532, AI566009, AI953390, W69466, AW316992, AW070487, AI923866, AI935070, N73159, AI566750, AI417872, AI016324, AI090116, W15440, AV725301, AA186420, N20596, AI671349, N39139, AI265888, BE858974, AA913036, AI358573, AI628972, AI186732, BE790478, AI984363, AA704919, AA917601, W69550, BE934848, W39624, AI650674, BF476672, BE934846, AA894710, AA447125, AA099943, AI984949, R82637, AA693315, H09503, BE763632, H70345, T90178, AA349889, AI752629, H09502, AI471414, BE693723, AA369428, AI537286, BE693716, BE693708, R11238, AW821064, BF884852, BG007300, AA404558, AW131948, BE005812, AW966090, H70346, AL135226, AA367092, BF086478, AA853977, BE071864, D79253, BG015935, AA827603, AA369427, N46549, AA249763, T82987, R82682, BF111281, AW960699, D79320, AW361956, AW821060, R11186, T05974, AA187789, AW176530, BE810842, BE810771, BE005726, and AB018283.

HISCQ44	210	751286	1 - 828	15 - 842	BF683169, AW752992, H50932, AL525434, F12992, BF793997, AU123305, AL525390, BF312571, AK001160, and AK023622.
HTGAU79	211	751677	1 - 1598	15 - 1612	BF969492, AV648389, BF348172, BF979269, BF973457, AA579641, BF683887, BF980517, AV648431, AV757661, BE612779, AW969738, BE777860, AI149891, AI889233, AA659710, AA461487, AI028588, AA460132, AV648314, BF940060, AA113277, AA682750, BE874201, BF510365, AI421205, AI753378, AA985248, AA936668, BE872797, AI914588, AI493749, AA169113, AL449856, AA046575, AA633392, AA722409, AI752615, AA169112, BF514541, AI424537, AL449857, BE545191, AA233726, AW268600, AA516077, BF979800, AA483490, BF060885, BE907645, AW082930, AW815447, AI201331, AA074311, AW609606, AW609594, BE716177, AW601214, AI989665, BE925921, AV658092, T87841, AL449485, AL449487, AL449486, AI087102, AL031055, and AL133520.
HETAJI2	212	751735	1 - 526	15 - 540	AA336727, AI435182, AI811303, AI860491, AI635650, AI149504, AI128359, AL021878, AC007270, AL118502, AP000542, AL109941, AC007204, AC008770, AC011477, AC007386, AL359218, AC006065, AC004985, AL138680, and AX013167.
HDABX16	213	752630	1 - 789	15 - 803	AL530978, BF206968, BF311229, AL518827, BE870189, BE261556, BE312224, BF312384, AL529296, BE621421, BE546607, BF979426, BF733995, BG033996, and AK025822.
HFEBM11	214	753105	1 - 446	15 - 460	BF035651, BG028710, BG110379, AW246245, BG035531, AA496102, W52780, BE560655, AA243109, AW675353, BF678739, AA884239, H85385, AA130095, BE812187, W04939, AV746713, BE617457, BE812189, BE840806, AA523735, BF750755, BE267207, BE770864, BE617905, N49855, AA744680, AK025402, AY007143, and AB012181.
HHGBS74	215	753235	1 - 1645	15 - 1659	AW853219, AW997066, BE243270, AA885705, BE711235, BE711238, BE867296, AA587619, AF114048, R92130, AA631738, AA573593, BE242758, AW629955, BE243140, AW275658, BF088850, BE243090, and AL136418.
HTAAT39	216	753289	1 - 1133	15 - 1147	AA446344, AA612751, AA298785, AA298780, AA298784, AA446524, AA298781, AA381170, AL357565, and AL357565.
HHSFO30	217	754184	1 - 305	15 - 319	AA099051, BE545794, AW966127, BF527400, AI834232, H73629, H73153, and AA249658.
HTAFE69	218	754529	1 - 486	15 - 500	AL109806.
HMSCM47	219	756579	1 - 1377	15 - 1391	BG122203, BG033920, BE259004, AL039961, BE275205, BE252695, BE391526, BE387863, AA683395, BE898764, AA159553, BE171959, BF983104, AA070288, AA345663, W39500, AA195153, BE895254, AA247937, AV660024, AI240936, AW972536, C03121, AW238459, AA036806, BE501409, BF026836, BF573216, AA195024, AA576054, AI700985, AI733547, AI668621, AI821455, AI820824, AA433955, AA600978, H39940, H44284, AA581968, AI082471, AW753990, AW451108,

					Accession Numbers
HETLM70	220	756676	1 - 1126	15 - 1140	BF306826, AA679007, BF000539, AI954678, BE503335, AA366682, BF352313, BE296500, AI696707, AW409673, BE269312, BF923618, AI203303, BF001790, AI344341, AW237780, AA505943, H44446, AA724912, BF511836, and AA677790.
HLYEN32	221	756950	1 - 787	15 - 801	BE740087, AW960605, BE304956, BE207572, BE645551, AA425334, BE048918, BE927270, BF748385, H13734, AW751971, AW748813, AA559207, AW362246, AW601591, AW195635, AI908541, BF090860, BF516168, AA335628, BF591120, AA177001, AA160404, BE179770, AI824341, BF002699, AA578987, AI681859, AA991211, BE859016, BF038466, AW751973, W37110, AW611712, AW150693, AI357925, AV724505, BF872555, BF855782, AW173702, BE830375, AW664454, AW102565, BF765954, BF515478, BF090962, and AW001725. BG117737, BG164386, BF854000, BG165061, AA428942, BE179097, BF194980, AI597929, BF205686, AW014245, AW769144, BE964916, BE620629, BE620090, AI687722, AI521276, BE276332, AV744444, AI559587, BE267602, AI279594, AI346062, AA625675, C75468, BF949795, W25095, AI581157, W44408, BF804338, BF854448, AA252324, H46994, H01257, W93787, BG029616, W57884, AA364849, BE253697, AA442735, BF811696, W31169, AA364527, AA160184, AA252345, AA862309, R08467, N28477, AA931691, H22406, BF965801, AI648609, AA148611, BF808228, AA281164, AA805601, AW959596, AA527501, AA447263, AA368445, N98322, AA482622, BE895802, BE877959, AA303251, BF854612, AA482477, BF805073, BF805234, H46453, AU157783, W26854, AW380284, AU148604, AA160185, BG118533, BF805062, BF809458, W22475, BF808178, BF738651, R08461, BF808229, BF817630, BF808126, W93786, AU148185, BF808227, AI701223, AA026285, AW366545, BF805070, AA299987, AW873163, AW407812, AI862394, BE076248, AI921016, AW881017, AW817812, AI359819, BF872137, AW382316, N46559, AI061452, AA809361, BF810265, AU146664, AA954145, AW382318, AW027703, AI828926, BF854649, AI276202, BE833277, AW800408, BF873756, BE174189, AW602319, BG004412, BG003226, N45470, BF871111, AW168057, BG005855, W44544, H22405, AW935097, BF762066, BF873735, AI434201, BE140726, AI094763, N47595, BF772094, BE925832, AW993021, BF805232, AI424178, AA280864, AW995613, BF763998, W94846, BF805265, N55950, AI033439, AK027202, AL117430, AK023201, AK023082, and AC010092.
HHFHU45	222	757207	1 - 701	15 - 715	AA043394, BF793925, BF310630, AL521590, BE257614, BF310545, AL526416, AA447023, BE255588, BF036703, BF111265, AW384800, BF206557, AI740580, AI741581, BF095771, AU139117, and AK002164.
HHFHR59	223	757351	1 - 794	15 - 808	BF967526, BE281639, BE799879, AW630745, W56608, BE247401, BF341516, AI750884, R17248, BE835036, AI765843, AA863109, AA346989, AA378515, BE763539, AI767788, AI336999, AW274450, Z98258, AK025641, and AK025861.

HDPPA45	224	757472	1 - 879	15 - 893	AL525879, BF314970, BF568109, BE513130, BE265505, BE378495, BE262153, BF316733, BF310163, BE273819, BE395987, BE266568, BE392129, AA307936, BE871766, AW651798, AW957845, BE263227, BE251642, AW957921, AA458517, AW630663, BF057258, AW362111, AI971714, AW975900, W23063, BE253991, BE256646, AI825679, N50335, AA910981, BE646636, AI811256, AI831840, BF000491, BG163616, AA994984, AA927184, AI685335, BF962309, AI148734, C00192, AW009759, AI380138, AW613907, AW628080, AW614442, AI559684, AI796492, BF436980, AF190464, and AC019099.
HMAGC74	225	757601	1 - 424	15 - 438	BE856886, AI937631, AI150352, AA813461, BF756717, BE536240, BE261441, AU123413, R72672, BG120533, BE785322, T19147, BE719057, BE262082, AK025479, and AK001167.
HHFFR79	226	759851	1 - 1551	15 - 1565	BF984917, AV651048, AV651055, BF062093, AW604368, AA831712, N49477, AI239505, AU160402, AU152742, BE206405, BF980447, BE545660, BE082703, BG176559, AA194860, AA127127, C17830, AV763218, BE019923, BF131534, AA732408, AW796614, AA999677, AA999662, AA376848, AI935648, AW242518, R23330, BE082918, AI678422, AU132460, AA348897, AA352059, AA767527, AU131664, BF691603, BF965186, BF369188, C05569, C05208, AK023119, AK023261, AK024042, AF198534, AF186095, AF163665, AX003675, AX046355, and AX046356.
HMGBP83	227	759888	1 - 1512	15 - 1526	AV759702, AA311915, AW972047, AA953779, AA521381, BF241426, AW995845, AI806245, AW361598, AI911194, AI580187, AA884217, AI872423, AI859991, AI610362, BG181066, BF725463, AI473536, AI538850, AI866469, AW054964, AI366900, AI802542, AW118518, AI440239, AI923370, AI926790, BF812960, BE786043, AI886181, AI890907, AW148363, AI568138, AW051258, AI611738, AI860003, AW983832, AI241923, BF814527, AL514829, AI570807, AW026882, BG222103, AI632408, AW302973, AW268060, AI635067, AI698391, BF812938, AW983703, BG116926, AW081036, AW983691, AI889189, AI866770, AL119319, AI866820, AW148294, AI619502, AI677796, AI627988, AI648454, AI915291, BF970652, AI433157, AI702073, AA806720, BF812961, AI633125, AI868931, AW152182, AI524671, AL513913, AL514843, AW008353, AI433976, AI288305, AI308035, AW983829, BF795712, BG257535, BE963035, AI521596, AI640704, BG110517, BG260144, AI609409, BF817402, BG029667, AI624293, AI499463, AI559586, AI963846, BF727091, AI554821, AW858243, BG252929, AW151136, AI539771, AI932794, BE897632, AI537677, AI494201, AW051088, AI500659, AI824576, AI815232, AI801325, AL515195, AI500523, BF812438, AI499963, AI270706, BE885490, AI582932, AI923989, AI284517, AI500706, AI491776, AI445237, AI620003, AW151138, AI521560, AI500662, AW172723, AI284509, AI889168, AI440263, AI564719, AI866573, AI633493, AI434256, AL514773, AI270183, AI805769, AI888661, AI284513, AI587606, BG031815, AI888118,

AI613038, BF528717, AI436429, AI889147, AI889376, AI371228, AI921248, AI440252, AI670009, AL047422, AI620089, AI866786, AI696570, AI610557, W74529, AI569975, AI634345, AI887499, AI471909, AW086113, AA449768, AI635467, AA641818, AW167021, AI670002, AI620284, BF868489, AI564259, AL513977, BF982923, AI591420, AI687127, AI590227, BF792961, AV743631, AI648509, AJ352497, AI651840, AW131294, AW073865, AI673363, BF895953, AW198090, AI956080, AI694157, AI636588, AI537261, AI371251, AL515413, AL042551, AW151714, AI432030, AL039086, AL514799, BF338002, AI559296, AW238688, AI536638, AL514887, AL045500, AI889133, AI452560, AI254731, BE784387, AI635016, AI500061, AI537837, AI686817, AI890833, AL514757, BE544111, AI683173, BF987104, BG166490, AW079409, AA788861, AI638798, AI569309, AA225339, AI933589, BE886728, BF727072, BF726237, AW149925, N33175, AW150794, AI659795, AI796743, AW079572, AI445829, BF814453, AI828583, R32821, AI860897, AW166583, BG178669, AV709679, AW161156, AI355827, AI445965, BF965814, AI499890, AJ349967, AL514359, AI784252, AW190194, AF233322, AX040974, I89947, AR038854, I48978, AK026408, AF087943, A77033, A77035, AF026816, AF116688, AL353940, AX040958, AL080159, I48979, AL137533, AL389939, Z82022, A08913, AL137550, AL389982, AK026462, AL137480, AL110280, A08916, AX026824, AX026823, A08910, A58524, A58523, AL049382, A08909, AK026744, AF061981, AF113019, AL353956, AL137488, U35846, Y14314, AK024538, AF113677, AL080074, AF183393, AF113691, AL137271, AF130055, AL137478, AL137560, AF225424, AF185576, A08912, AL359941, AL050024, I89931, AL137538, A21103, AR087170, AF111849, AK027164, U96683, AF122270, AL117435, X82434, AL122049, A65341, AL162062, AF056191, AL050366, AL359583, AF262032, AF271350, AF090934, AF119899, AL122050, AK026506, AK025798, AF026124, AK026593, AL080148, A03736, AL137292, AF008439, AF090903, AF116682, AK026534, AF285167, AB052191, AK027096, AL162003, AK025632, AL023657, AF177401, AK026532, U80742, E02221, AF314091, AF139986, AF119875, AL390154, AF116654, A93350, AL133075, AF130077, AX010492, AL117440, AL050138, X72889, AF230496, AF116691, AK000418, AL049938, AK026528, AB048953, AI299431, AK026959, AF217987, AK025435, AL050149, AL122118, AL133560, AL133072, AF032666, AL122110, AK024992, AK026480, AL133080, AK026642, AL133665, AK025414, AX045627, AK027204, AB048975, AL117460, AL110221, AK026927, AL133077, AK025484, AJ012755, Y07905, AL137476, E07361, AF113689, AL137557, AK025084, L30117, AK027146, AF116646, AF130099, AL050277, AL137463, AK000652, AK024588, S36676, AF067728, AX042059, AJ000937, I33392, AK025339, AB047904, AK026542, AK026885, AK027160, AK025312, AK026551, AL133067, AF017437, AF116676, L19437, Y16645, AB051158,

					AB041801, AL133640, AL137529, AB050431, AL050116, A45787, AL157482, I00734, AF116631, AF106862, AL049283, Y11254, AB050410, AB048919, AF130100, E02349, AL137459, AB048954, AK026762, AB048974, AF130105, AK026630, AF116602, AF130082, E00617, E00717, E00778, E12747, X65873, AF155148, AL389935, AF130104, AF067790, AF119337, AK027114, AL137526, AF118094, AL049452, AL049430, AF113699, AF111851, AL117583, AK026741, AK000083, AK026784, AF153205, AL117585, Y09972, AK027116, AK025524, AF090901, AL133113, AF130110, AL050393, AL122123, U49908, E03348, I03321, Y11587, U67958, AB050533, AF090900, AF061795, AF151685, AL133016, AL050092, AF104032, AF119865, AK026045, AB050534, AF177336, U58996, AF119909, A08908, AL117432, AK026855, and AL162002.
HAUBV24	228	760121	1 - 871	15 - 885	AW299924, BF591991, AA641636, BE552126, AI244707, AW582864, W02244, W31405, AA700527, W31364, AA004846, H57642, AA682556, AA005063, AW137554, W78800, H58485, W80643, AA813614, AI982595, H93564, N58338, AV684440, W04505, AI739425, BF063540, W04549, N73988, H93563, AC058787, AC024068, AC068906, and AC034109.
HWBAQ71	229	760146	1 - 442	15 - 456	AA078851, AW237409, and AL158198.
HRACE71	230	760240	1 - 445	15 - 459	
HADGC71	231	760321	1 - 447	15 - 461	AV710229, BF085557, AL137201, U95825, Z75889, AB023196, and Z84467.
HSXFL85	232	760494	1 - 552	15 - 566	AL538220, AL538219, AI480012, H19676, R89656, BE466061, AI992259, AA308883, AI937402, AI633754, AV748497, BF508330, BF316690, BE261557, AI094532, and AF225903.
HNGDQ71	233	760510	1 - 433	15 - 447	
HTOJT28	234	760822	1 - 1278	15 - 1292	BG260462, BE966632, BE622688, AW963926, AI521877, AI334984, AI765363, AI017581, BE274396, AA885230, AW518279, BE736962, BE302086, N42638, N33002, AI367782, N20045, AI354903, BE622520, AW469894, N29070, N25847, N42447, AA379316, BF812981, N21440, AA379869, W94393, BE894449, N43812, W74612, AW276528, AW630384, AW611653, N20169, AW879040, AA994825, AA164284, AA164285, BF350517, AW817775, N28593, AF235022, and M94043.
HSDZF13	235	760890	1 - 910	15 - 924	N25951, AU119260, AL532307, AW009637, BF222719, BE675891, BE551994, AI417147, AI250808, AW512361, AL519408, AW298190, BE644632, AI870137, BE676177, AW978338, AI110587, BE798561, BF062834, AW977503, BE798584, AA768395, BE779351, AI289263, AA769533, AW613648, N26848, AW373450, AW297301, W15533, AI808400, AI079688, AW085089, BE176571, BE176567, AW886581, BF698882, BE674076, AW972105, AW972128, AA677498, AI799484, BE467997, AI360937, AI378075, AI457270, AI363333, AI681227, AI363339, BE218068,

				BF432688, AA627925, BE551356, AI806180, AI984311, AA483815, AW291197, BE294231, AW269239, BE718166, AI300955, BE328888, BG163611, AI129095, BE176524, AW410019, BF993298, AA280184, N42781, BF223391, AW067835, BE218572, AA807144, AI681511, BE707019, BF811910, BG015002, BF026769, BE072453, BE072468, AA748383, AW856033, BG014996, BE072360, BE072414, BE072362, BF063631, AI696003, BE934565, AA479673, BF026313, BE934584, AA281561, BE548839, AA486902, BG013649, T07608, AW852099, AW886779, AW845287, AW845295, T84272, AI126668, AI126371, AL135056, AW812632, BE884938, BG013650, BF082672, BF154756, AA972313, AW852117, BG002895, AI082332, BF345865, BF928424, BF803056, BF327256, AL353194, AK021791, and AL390136.
HTOBH39	236	1 - 1242	15 - 1256	BE748329, N74752, R59259, R19718, AL044945, Z43800, N46928, BF989140, AA215691, AW672673, W20097, H93163, H92772, AW451096, AW672684, AW675432, R05649, BE748804, AW675425, AI122843, BG236421, AA844417, AL355365, U92072, AF118890, and AF118889.
HE9RP73	237	1 - 834	15 - 848	BF195423, AW295027, AI632894, AI375620, BE348529, BE222485, BE348738, AI375618, AI797110, AI912217, AW770520, AI458372, AW293332, AW294242, AI032301, and AA937736.
HSXDG07	238	1 - 1192	15 - 1206	BF001696, AA534383, N46697, AU151694, AI499339, AI743820, AW589672, AU149025, AI432311, AI141137, AI206397, AI925435, AU146251, AA779076, AW262097, AI922995, BE963120, AI378560, N51246, AW028157, H16937, N39252, BF210631, BE748997, AW295413, AL528775, W26344, Z41197, D82385, F11545, AV650935, C18350, Z45504, H12188, N66289, AA283636, F09207, AA236640, T99276, F09206, BE748589, F11546, H11659, T17419, H59417, BF935776, H16829, R27309, R25225, T99221, T99540, AW338205, D58891, R99013, BE716553, T99263, BE716566, AW749636, R55968, AA03271, AI648397, H73161, BF813725, AI831888, BE618701, AW373183, AW887344, D82517, AW887413, AB037835, AK026928, AK001513, and AC007404.
HDPHG57	239	1 - 435	15 - 449	AI693286, AI816113, AI684537, AA429420, AI299311, AA431915, BF446559, AA167761, BF698832, AI751135, BE778891, BF130655, R60698, BG170065, BE789599, BG255064, BE895312, AV717371, BF542106, BE778896, AV717171, N26943, BF796752, AI816153, H17558, W24886, AA716760, BF215110, AA424450, AA301438, BF185620, AI239938, AV705702, AI302044, AA554693, AW895662, AI051013, AI494497, AA349162, AI421385, BG033297, BF380304, AA428364, BF059220, AW964690, R79049, AA325072, AA323645, R78947, BF575192, AA282105, R78954, AI992090, N95752, AV703917, AI188518, AF224669, and AC018797.
HGBAD15	240	1 - 1248	15 - 1262	BF084678, BE765056, AW996750, BF084642, BF838184, BF915389, AW965064,

Name	No.	Accession			Sequences
					BF801416, BE886249, AW813003, AV696891, AV696823, H90200, T71483, T67605, R94391, W03660, BF800050, BF084818, BF084790, R16438, BF084792, BF084824, AU149677, T86896, R05366, BF670154, N91701, AA343651, T71331, U77324, AA618549, Z45791, AI744411, BE697880, BF229401, T86897, R12694, AW937308, AX048074, AK001348, AL122121, and AK022188.
HOEEP07	241	766074	1 - 1425	15 - 1439	AU119569, AL532985, AU142432, AL532316, BE779194, BG033810, BG028780, AV760710, AV727636, AV713588, AU133495, AW339473, AA459878, BE539968, AI620522, AA316495, BF210404, BE257714, BG115669, AA416834, BF593261, AI800813, AI802008, AI214937, BF970302, N42223, W01150, AA558968, AW402874, BG107544, BG117674, BF977848, AA190851, AI973180, BF818898, BE694334, AJ239400, AW151776, AW135559, AI421126, AV661683, AA416686, AA504377, AI653340, AI088404, AI361464, R24743, AI708416, N87417, AI364347, N54199, AI768955, BE089339, BE694331, AI474186, BF571572, AA298100, AA330651, AA453973, H11398, AA090089, BE816247, BF352077, AI200360, T36003, BE178580, AW953909, BF573798, N75920, AI918789, R23562, T16195, BF351871, BE670538, D79036, AA453468, AK001766, AK021855, and AK023977.
HFIHT50	242	766558	1 - 815	15 - 829	AW138187, BE207094, AW976574, BG115559, AI738575, BF513404, AA742327, BE244281, AW504001, and AL137480.
HANGD38	243	766868	1 - 1482	15 - 1496	AL526452, AL526495, BF115050, BE408960, AW135408, AU153435, BF036717, AL044198, BE877119, AW044684, AI937823, AI869273, BF568751, AI131226, AW511009, AV690044, AI697401, AI089110, AA253416, AI962638, AV697476, BF568579, AI004204, AI652959, AI150387, AA284777, AI128104, AA837002, R73456, AI869257, AI566712, AI632823, AI587100, AA643153, AW206838, T54515, AW731976, AA335416, BE279820, N22928, AI699828, AI254749, AW381851, AW058487, BF349036, BE265387, AW381852, BG055543, BE547316, AI000537, BE278264, AI913047, AL117398, and AK024269.
HPMGQ75	244	767356	1 - 1144	15 - 1158	AU136849, AI138605, BF090004, AA748696, AI248602, AW135160, AI093693, AW504888, AA350817, AI056943, AA806341, BF962888, AA450196, H09754, AI358958, AI655847, AI352547, BE176203, BE045975, AA149105, R46281, BF090050, T06526, AA699357, R56089, W90058, H09777, BE176213, R46194, BF953979, T07179, AA630146, AA630242, AI739458, AA149104, and AK001942.
HBJJH66	245	767674	1 - 777	15 - 791	AW976160, N24210, BF853022, AI493459, AI744490, AA515275, AW974563, AA400218, AA747717, AI214995, AW977625, AI963927, AA747813, AI809251, AI188143, R58937, BE222577, AA435795, AW474677, AI699142, AI985611, AI934156, BG104882, AA648859, AA884351, AI015483, AA400129, AI024070, AA811998, AI419128, and AL122109.
HEGBB78	246	768346	1 - 1946	15 - 1960	AW450341, BF062815, BF433621, BE042961, AA237093, BF437702, AA432270,

1195

Clone	SEQ ID NO	Accession	Range	Range	Sequences
HAJBC01	247	768776	1 - 369	15 - 383	AI472317, AA868341, AW977034, AI264599, AI095500, AI360329, BF939207, AA847485, AA431260, AA236681, AI380193, AI862575, AI800949, AA158767, AA625441, AA565015, AA609030, AA099081, AI800942, AA847586, W76503, AA057283, AA058728, AI475452, AA481052, W72555, AA046202, R43719, AA533026, AI150119, H64004, AI077622, AW449914, AA046282, BG150675, BF446183, T52803, Z20632, AA721115, H64054, AK024637, A75250, AL109914, and AL359994.
HHGCP75	248	769003	1 - 751	15 - 765	BE867540, AW272260, AI378661, AI871902, AW957020, AA131886, AA193449, H06773, AI349551, AU138307, AA131887, AA193682, R52308, AL513784, F11415, H64261, AA016110, AL524822, BG122385, AA059138, AA299723, AW363105, F06646, BF986163, C06172, AW754048, F05102, AV733911, R25576, H64260, R77194, AW363124, BF446269, AI949988, W39604, H15390, AW024813, BF803600, BG035134, BF362262, AA434293, AL524821, AW901366, AW664063, AI919247, BG007354, AW806545, AK001887, AJ249976, AC006966, and AB025580.
HAIDO95	249	771350	1 - 1405	15 - 1419	BG257943, BG165269, BG259172, AI424802, AI916783, BE910430, AI819053, AI816777, AW272605, AI590692, AI479430, AW514278, AA551171, BF940155, BF445111, AW629154, BE559548, AI735281, AI571324, AI478759, AI393954, AA721080, AI524155, BE503212, AA810185, AI097009, BE390809, AA284628, AI123017, AI261506, AI767266, BE327222, AI681243, AW014194, AW160735, AW014209, AW008652, AA284635, AW376166, AI458147, AI476200, AW376156, BF128669, AI093995, AI143101, AA732032, AW025657, AI308770, AA234937, AA252222, AA242937, BF221723, AI276128, AI360495, AA804455, AW137536, AW376188, AA831992, AA279678, AA705403, AW386011, AA234936, BG231189, AI082377, AW173743, AA371418, C16269, AA169648, AI082246, AI434042, AI094553, AA295327, AA169828, AI094458, AA282437, AI870814, AA204686, AI523829, AW376165, AA280609, AI015800, AW473793, BF773007, AW376186, AA207071, AA207070, AW768513, T10533, BF247348, N98898, AK000654, AC004067, and AC004068.
HE8UD19	250	771648	1 - 973	15 - 987	BF692975, BF980357, BF970789, AW995310, BF943459, AW474322, AA609972, F27451, AW748103, AI491737, BF920158, AW675385, F37347, BF217122, AW387654, BF954266, C01106, BF959308, BF057458, BF954263, AF117829, AC074178, AF061326, and AF069291.
HMAIT58	251	771900	1 - 426	15 - 440	AV712950, AV716955, AV715751, AV716324, AV712255, AW016896, AV717365, N77056, AA333542, AW662189, AA363393, and AL390195.
HDAAE77	252	772217	1 - 1516	15 - 1530	AW961900, H10235, AA310824, R67302, T08985, R17955, AV746798, F05576, R60879, AB046764, Y18276, AF072372, AL137748, and AF072371.
HKAOJ07	253	772639	1 - 547	15 - 561	BF311525, AI537814, N33624, AI254765, AA317406, R99735, AB039887, AP001628,

Gene	No.	ID	Nucleotide	Amino acid	Accession Numbers
					AP001748, AC006080, AC005089, AP001746, AP001724, AC004216, U91322, AL121900, AL132653, AC009506, AC004820, AL009172, AC012384, AC007225, AC006075, AC000029, AL031407, AC002299, AF312913, AL109623, AL157384, AP002026, AC011444, AC005098, AC011895, AC025435, AC078843, AC008155, AC007679, AC002036, AL136979, AP001619, AL136128, AC004166, AL049780, AC007655, AC002378, AC020898, AC006455, AL031733, AC010458, Z93015, AP001745, AL049778, AL049834, AL138756, AC002429, AC005015, AL356652, AB017335, AL390755, AL157818, AL096700, and AC005725.
HDTFC73	254	772840	1 - 1291	15 - 1305	AW957373, BE967654, BF672466, AA243659, AA243138, AI435874, AA233092, BF510635, AI823876, AI277512, D51291, T33433, AA350528, AU156897, AA243139, BF478040, T23439, R18090, AA371115, R51070, AI886821, R42984, R39042, T82466, R40894, AW894125, AI382942, AI695784, AI539054, F11126, F02015, D52490, AI685658, C01658, AA748514, T03527, H05920, BE934157, BF999110, T06066, AW901173, BE699319, AK001942, and AF131789.
HDTFI32	255	773040	1 - 524	15 - 538	BF208846, AA158924, W32064, BF358935, and U44731.
HLQCY70	256	773347	1 - 360	15 - 374	H19562, H19062, BF681106, BE675015, AV725465, H52459, R69117, AA614237, AV708759, BE718316, BF726278, AA448546, BE772280, AA447563, AA311577, F36358, BF962541, BE719042, AW327928, W05714, AI093147, H23844, H81705, BG236194, AA772120, H22656, AA657706, BF446211, AA533518, AI582362, BE268803, BE772274, BE772259, BG032680, AI037342, BE250833, BE393724, BE270632, BG180723, AW955450, BF984538, AW974969, BF381633, W93751, BE270682, BE397872, BE774011, AL048648, BF184282, AA335093, AI525497, BE733059, BG258238, AA346023, AI204550, BE277134, BE798289, BF978089, BF337703, AI074215, AA284494, W20206, BE908897, AA533572, H46711, AA464383, AI335325, AA045542, AA287198, AA036876, AA724195, AA865386, AA100765, BE170819, AI168457, AW152438, AA327562, AW404423, AA709329, AA535547, AA555050, AA586432, AA482584, T77375, AI471545, R69236, AA056936, N90563, N26779, BE737066, AA464272, W42411, BE735075, AI139932, AA548760, BG178440, W93700, AA100712, H18965, AA091696, AA419348, AA877233, AA352847, BE719039, N39863, N26835, AI200703, AI140027, AI475731, AI864445, BF742201, H45228, AA465029, AW058191, AA448262, and AA568726.
HELDG78	257	773740	1 - 307	15 - 321	
HAGEK19	258	774276	1 - 706	15 - 720	AV690304, AV655247, AI631883, AW681208, R56792, AI046024, AI048523, AI767614, BE439542, BE439434, AW609020, AW608995, BE439578, BF966771, AW608990, AI293459, AF038124, BE067210, BF334397, AW609005, AA545726, AA545816, AA545727, AJ404664, AJ278596, AJ251619, AJ278594, AJ404665, AJ293456, AA389641, AV746398, AF144029, AR038762, AX001322, AF095853, AJ290944,

H2CBA34	259	774569	1 - 1703	15 - 1717	AF018071, AF029692, AJ277249, AX027452, AF033115, AC005501, AF144028, S80858, U89589, AB026436, AF046029, AF064096, AX014322, AJ295141, A93445, AF135422, AF046032, AB019570, AB040807, AX035760, AJ300180, AJ300181, A57129, AF045378, AF019711, AX002414, AJ295140, U67863, AF015282, AF054096, AF054135, U79408, A95310, X79046, A81344, AF056703, AR069413, AJ250192, U79394, AF019692, E13215, AF015280, A65365, AX003207, AF054014, U79377, U13667, U22491, AF054018, AJ249369, A80476, Y11107, U79331, AJ005669, AF054071, AF054113, U79329, AF054132, AF054025, and AF056695.
					BE410951, BE385296, AA307119, N41943, N31453, AI917923, BE275846, AI074304, C18742, AJ239398, BE086052, AA317489, AI208843, N25339, AA991578, N55244, AI190190, AA369818, AW957099, BG251842, AA034423, BF942978, BE269211, BF944736, BE513344, BF942976, H82636, BE396785, AA369558, AC004228, AC003025, AF139813, AF073499, AF073501, AF057169, AF057170, AC007263, AC007404, AL121949, AC011895, AL022336, AC005207, AC003072, AF196970, AF196969, AC018720, AL121899, AP001725, AL133551, AC002470, AP000703, AC004522, L78810, AC005015, AC025594, AC005666, AF134726, AC005914, AC005288, AC005049, AC023880, AC006270, AC011495, Z81364, AX039602, AC005924, AC004854, AC005378, AL353706, AL133232, AC024561, AC011453, AC006480, AP000302, AP001727, AC009244, AC005088, AP000114, AP000046, AC002492, AC005180, AC006017, AL359382, AC008474, Z98051, AF275948, AC074338, AL139396, AB015355, AC006014, AL031767, AL109897, AL161670, AC002477, AC004531, AL133507, AC007308, AC005037, AL139039, AC010328, AC005800, AC005488, Z99943, AF207550, AC016027, AC018644, AL049780, AC022392, Z93015, AL008583, AP001695, AC003665, AC005225, AC027319, AC016995, AL121652, AL162505, AF124523, AL049631, AC004867, AC011475, AC002045, AF053356, AL022326, AC004686, AL096840, AC007055, AC003982, AL136137, AL133288, AL161731, AC005098, AC008536, and AL391684.
HDPTC79	260	774739	1 - 1455	15 - 1469	AA495793, AA149783, AA495729, R13843, AI160386, H11562, AA418639, AA151775, AW022459, AI263905, BF924146, AA302905, AI590796, AA418577, AA302904, BF526295, BF990024, AW837927, AW838065, AW837899, and AW838051.
HTHBY73	261	775247	1 - 720	15 - 734	N40667, AA329668, AL532059, BF092002, T35364, H64102, Z43611, BF229785, AI307240, BF364263, BE702964, AI951554, AI909783, AI816064, T29948, Z43604, AI942492, BG054939, AW751045, F07345, AA160594, AW969529, AW188628, AW302233, AI335011, AI423498, BF341298, AA293045, AI051728, AA293436, R78689, H12368, BE696174, BF094196, N26393, AI076557, BF002146, AF249319, AJ293970, AK026102, AF287269, AJ293659, and AF287270.
HE8DL19	262	775419	1 - 580	15 - 594	BE871751, BF980147, BE180414, and AC008784.

HMEGE46	263	775455	1 - 701	15 - 715	BF435789, AI916608, AI344659, BE514712, AA988582, BE219928, AI122693, BE244195, BF222824, AW139768, AI744445, AI457767, AW134479, AW192621, AA171386, BF438959, AI955090, AW149612, AW235205, BE246231, AI953327, AW009231, AI479545, AI333127, AW206995, AI972628, AI807108, AV657186, AI858921, AW016538, BF939058, BF434318, AI351886, D29147, AI337048, AI299186, AI536715, AI656738, AI742727, AI453605, BF061339, BE220688, AI702718, BF196240, AI831375, BF695707, AI762299, and AK023109.
HTEIA85	264	778081	1 - 1999	15 - 2013	AL517126, AA868347, AU124289, BE886699, BF981239, AU124539, AI678634, BF970664, BE889232, BF347159, BE378624, BF969563, AI362032, AI360234, BE783809, BG029433, AI890662, AI207693, BE080873, BE328406, BE884759, AW959929, AA425531, BE173494, AI857342, AW148767, AW391919, BF980651, BE251405, BE536870, BE778123, AW664598, AI870540, AW268349, AW291307, AW051419, AL515145, BE328726, BE542081, AA397933, BG033239, AW613279, BE047494, AA425342, AA604376, BE568547, BE782576, BE869041, AW337957, BF944754, AW058214, AW383098, AI015429, AI811856, AI700231, BE894421, BE867405, BE564442, BG109303, BF082740, AW088558, AA429058, AW368050, H94867, BE568757, AW150319, AL040690, AI088198, BE564719, AI275791, N28822, BG118538, AI984513, AA664447, AA581367, AI318087, AI554535, AA100536, BF349648, AI570789, AW885715, BF742844, AI038533, AA437168, AA781893, BE729239, BE925843, AA127205, AI457156, AA487373, AA487256, AA506615, AI700449, AU148368, AA084186, W39183, N34327, W48615, AA335074, AA083852, AA759004, AA127204, BF931010, AI475155, T16186, N68154, AA282950, W76502, N52965, BF365527, AI492630, N23350, N44219, AA599858, N90243, AA441795, BE256979, AA954074, W72554, AA001366, AA426436, AI150591, Z17342, W48848, AA084150, R17788, H73679, AI244828, BE092078, T34091, BF927370, R15766, R53782, Z43180, AA812472, AA393722, AA992902, AA854973, BF310652, BF330975, R58476, H60664, N80612, R16270, H47840, BF525491, Z17375, R16404, BE891319, H65124, H92922, AI806053, R51356, BE858690, BF918312, AA129474, AA703655, AI273223, AI926270, BF963065, AA329148, BE774606, H92802, BE769225, R20399, AW795296, AI049843, H56558, BF090852, AW607377, R41931, H69496, AA335073, H59850, R94332, H84519, AA083896, BE164310, AA808483, BE710894, BF834037, H73731, R51462, AW674398, H56559, AW380175, BE799336, BF869029, AI886687, H66590, AV729890, AA503185, BE936384, AI298510, BE881294, AW270029, BF923491, R12667, R02834, BE007732, BE007738, BE007723, BE007724, BE007734, BE007727, BE007730, BE926092, BE007729, BE538437, BF806049, BE796361, AA911021, BE926100, AV747567, D20966, T24827, BF926145, AW995423, AI559973, AI590813, AW995373, AW966839, T08376, AB011173, and AL031428.

Name	No.	Range	ID	Range	Accessions
HSHBF13	265	1 - 933	778087	15 - 947	AI862453, AI569794, AI800423, AI590769, BE313614, BF982756, AI859970, BE301273, AW170296, AI811162, AI653897, AI569595, AW467390, AI652421, AI653548, AI739622, AW276481, AW473524, AW964953, AI963681, BE939495, AI657090, AI624062, AI701477, AA847299, BE892957, AA973284, AW300934, AA884426, AW007927, AI671878, AI150198, AI597690, AW772043, AW205152, AA687348, R48787, AA398522, AA132853, AA639818, BE856046, H16789, AW079395, T72002, AW518068, AW510732, AW025171, AI283535, AI028345, AI208208, BE38e015, AI204112, AI869844, AW235822, AI521850, AI917108, AA297158, T87641, BG236404, AI760407, F09217, AA835697, AW009374, AI200294, AW136297, AW578241, BF983084, AA477930, AA609623, T51196, AA292757, BG181058, AA298687, AI222636, T03597, T80196, BF348744, AA046518, AI648526, AA046693, BF591885, AI784267, AI656095, AI539547, AI673418, R50052, AA160800, AA927052, AW196234, BF315318, AW194685, AI283529, BF222991, T64280, T51302, AW384442, AW274852, R50051, AA292781, BF358771, BE793372, BE304649, AW392818, BF804025, BG025169, AI247295, AW812132, AW812133, AW812134, AL527121, BF762485, AK026044, AF288687, U21720, and AF060515.
HLYCQ80	266	1 - 702	778291	15 - 716	AL522429, AL519857, AL525166, BF795119, BF953602, AL522428, BF889168, BF953600, AA417315, BF950828, BF953606, AA363724, BF953605, AA416846, BF950827, BF953597, BF790896, BE219962, BF950833, BE254979, BF953596, AL525165, BE738260, AA442345, AW149619, AI822093, AA401532, AA502835, and AC004024.
HE2OF81	267	1 - 598	778504	15 - 612	AA463471, AI590283, AI479619, AW170566, AI356285, BE671701, AA722942, AW469714, AI279424, AI870381, AI475890, AW105033, AA443030, BE646579, AW135396, AI357242, AI860938, BE856482, AI692574, AI420407, BF948785, AI566567, AI306543, BF929181, AA748866, AA328301, AW204848, AW136075, AA729225, AI251746, AI698815, AW137312, AA865160, AW206983, and AF069736.
HTEBB88	268	1 - 617	779291	15 - 631	AA431834, AA412657, AA383405, BF979852, AA399262, AI970493, AL042749, AI026627, AA431430, AA412489, and AW589908.
HWHGD82	269	1 - 793	779607	15 - 807	BE149572, BE149762, BF927988, BE710647, BE706463, AW860458, BE149306, AJ005585, AL355984, and Z70023.
HWADH67	270	1 - 672	779663	15 - 686	AU142678, AA305711, N48526, BE888778, AK023990, AB032948, AL359929, AK025302, AY008271, and X69942.
HKADC82	271	1 - 518	779838	15 - 532	AA256009, and Z73417.
HHESK83	272	1 - 553	780458	15 - 567	AW238796, AI446252, AU133011, BF528401, AU140703, AV748024, W47453, BF034868, AB011164, and AK001686.
HMIAT16	273	1 - 1205	780804	15 - 1219	BF967603, R56740, R12211, AV724882, AW901254, AW902264, R25705, AV725183, BF362604, AW902149, AR079035, AB033015, AB050265, and AL157830.

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HADFW62	275	781376	1 - 508	15 - 522	
HDTBV64	276	781623	1 - 732	15 - 746	AW971689, BE173409, BE173585, BE173471, AI766639, BE173481, BE173586, AA446322, AI147871, AI423223, AA446503, BF102702, AU157616, AA641529, AA043190, AW074400, AU156799, BE349039, AA043189, BF677334, AI159832, AI419387, AA627345, AI031904, AI886950, AI934352, BF939730, AA854750, AI619780, AI719353, AW103783, AI097237, AI371803, N62242, BF446754, AI932664, BF966850, AA022728, AI082158, AI027157, AA528304, BE895637, AI033762, AI719873, AI205854, AA459012, AI215871, BE173590, AA846562, AA781300, N32245, N32239, C20624, AA838762, AV734597, AA046667, AI805379, AI571690, H88240, BG152848, AI241774, AA825596, N57339, AA721753, AA369579, AW771347, BF941206, AW827132, AA369411, R44703, AW591353, AW193628, AI687862, BF218355, BF363932, H92698, AW901820, AA326713, BF363979, AA349280, AA830510, BF691477, BF363985, R44702, AI699714, BE701927, BF800094, BF576897, AA256744, BE176885, AA376823, W04679, AV659955, H88016, AF113224, AF208863, AK002102, AC021019, and AL358133.
HOHBR65	277	781821	1 - 598	15 - 612	BG177251, BE392473, BE540551, AV750730, BF795551, BF589465, AW504749, AA385917, BE895566, BG119102, AU127443, and AK022818.
HRABZ84	278	782028	1 - 889	15 - 903	N77440, AL079791, BF332757, AA300559, AU124105, AA249371, AA179324, BE706277, AB014578, and AK023168.
HKABD18	279	782431	1 - 595	15 - 609	BE551045, AI761086, BE467416, AW014459, AI658633, AA157537, AW008399, AW578213, AI214342, AI651449, AI292079, N92657, AI524798, AW517316, AW501719, R19362, AA890687, AA203496, R19361, and AC015853.
HUFAJ06	280	783017	1 - 1085	15 - 1099	AU123891, BG254072, BF034062, BG026501, BE905914, BE379882, BF575139, BG178012, BE018688, BF666905, BF724896, BE781202, BF969239, BG029993, BE929233, BF035227, BF084153, AI569851, BE897137, BF084155, AA300363, AI868450, BE886832, AV747378, AW082547, BE938831, BE379802, AW601587, BF812290, BE673019, BE926722, AW675134, BF907150, AW975844, AA479256, BG115871, BE258274, AW754116, BF331949, BF001398, AW024440, BF111317, BE543712, BF434200, BF222717, AI742737, AI656136, AW467007, BE877085, AA394229, AK001499, AK001492, AK001222, and AL137401.
HDQFV46	281	783316	1 - 999	15 - 1013	AL531039, BF973454, BE727445, BG115169, BG114062, BF684794, BF973606, BE537060, AW969042, AA700020, BF968627, AW206059, AW957238, BF432198, BF980402, AI672358, BE326492, AA916774, BE003525, BE003532, AU151013, BE003523, AA699619, AA827289, BE206364, AU158148, AU152265, AI032726, BE043951, BE747743, AI024492, AI208858, AI375573, AA725543, AA287974,

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HMEKH64	282	783318	1 - 1183	15 - 1197	BF971670, BE266703, AV717910, BG253151, BE747743, BF976418, AW386331, BE844252, AL531039, AI929214, BE894133, BF973606, AU130281, BE148644, H67581, AW867029, BF684794, AA362131, AW605843, BE180513, BG114062, BE537060, AW605842, BE257623, AU136976, AW579730, BF973454, AW379329, AI888704, BG115169, BF350024, AA327714, H50988, AA291338, AA504437, AW379315, AA203299, T97082, BE727445, BE003525, BE003532, BE003523, AW340421, AA259009, BF980402, BF364187, AA626831, AW673901, BE396252, AL531040, AA480957, AA235431, BF758920, AW957238, AK023702, AL110271, and AK025390.
HTLEE85	283	783631	1 - 541	15 - 555	R09977, T05374, AF184921, and AL110245.
HCE4Q82	284	783713	1 - 1504	15 - 1518	BF979576, BF685876, BF237525, BF980213, AI962634, AJ123829, AI675169, AA446522, AJ123819, BF439625, AA846261, AA812673, AW013867, AA398356, AI248400, AW952312, AA435895, AW268607, AA293782, AA609058, AA398858, H92236, R85058, AA928382, H23595, AA446343, AA932275, AI143864, AI867690, R86854, R86872, AV728555, AA319860, AA609577, AV728680, R85059, AK024750, AJ400877, and AJ400878.
HODEC95	285	783883	1 - 693	15 - 707	AL121655.
HCBBA47	286	783892	1 - 2015	15 - 2029	AV725226, BE619022, BG178817, BF241370, BE895080, BG113258, AV715766, AV733942, AV726793, AL036345, BE875631, AL036344, AW955920, AW954961, BF512650, BF740018, BF238340, BF794067, BF438225, BF127410, BF541953, AA702956, AI816856, AW772335, AW340628, AI871692, AA421023, BE739050, AW271529, BF244204, AI702180, AI147255, AW501666, AA227625, AI283417, N30286, W73960, AI083587, AA436206, BG180607, AI694900, AW578422, AI349323, R78863, AI191671, AA281451, AA693549, N42007, AA586311, AA321680, AA974083,

HSKEQ61	287	783939	1 - 2455	15 - 2469	AI352703, AA628839, AA636123, AI279737, AA469953, AW589576, AW467404, AI352647, AI022057, R64528, AA319968, BE695706, BF154492, AW852265, H30815, BF743115, R68417, BF214618, AA442126, T54284, AA436205, BG122218, BF327469, AA745658, N63217, N63229, R68418, AA747151, R79350, BE003010, AI678653, AW970097, AA528692, AA683590, BE814850, BE814851, W79264, T54391, AI270355, AA837348, BF904237, AA585295, BE782466, AL008718, AL389951, and AL050007. AU135920, AL517209, AU131691, AU130251, AI972528, AI688414, AU123251, BF109719, BE546692, AL517208, BE881139, BE890805, BF793401, BG120087, BF057427, BG250623, BE048738, BE882401, BE613577, AI640498, BE540307, BF343742, BE614292, AW151747, AW958404, AW152397, BG035353, AV682987, BE883215, AV703155, AU128516, BF666236, AW966581, BF106340, AI480333, BE328670, BF218009, BE836374, AU127593, AI685403, BG251542, AI669680, AU152244, AA085541, BG253320, BE964277, BF131711, AWS14294, BF244439, AI188466, W44462, AI123344, BE206579, AW627436, AA442555, AA890256, N44947, AU150796, AV705529, W44423, BE770328, AA593805, AI080628, AI569249, BF542143, BF510041, AA622751, AI130841, AA314696, AA621315, BE779242, H72468, AU156368, BF372598, AA559031, BF507523, AW630453, BF245794, AW408163, AI357067, AI263453, AI042577, BE876481, AW517811, AI246358, AI292246, H71650, AI148526, BE222791, AI050839, AA311995, N33165, N51572, AV701651, AV734456, BF733585, AA677757, AA680365, BE925424, AW006059, AW408752, AI003722, AW373632, N26323, AW195678, R70589, AA722821, BE843463, BF447496, BF358328, AV707275, H71651, N39766, H12581, AI783986, H48743, AL041259, R25830, BE552464, H12582, N67428, AA207208, AI863535, AA379962, AA374360, BE825711, AA298251, AA296959, AI745701, H72869, T84011, BF676229, AA380015, BE177759, H86954, BE177295, AA248786, R46828, AA300956, N86979, AI927507, N50351, T52668, H58749, AA861220, AA298872, N75389, W01901, W88430, BF131193, AA694396, T52667, AV710681, BF828638, H48744, BF885210, T84010, BF358281, BF229289, W78815, AA777519, C01970, BF247057, W80714, U97067, AF030233, AK022926, AF006070, AK022539, AF080071, AK022834, AF135021, AF006071, AL050016, AF134888, AF134877, AF134872, AF134871, AF134873, AF134876, AF134879, AF134884, AF134881, AF134874, AF134887, AF134880, AF134875, AF134878, AF134886, AF134885, and AF134883.
HWEAC64	288	784039	1 - 559	15 - 573	BE618503.
HSDFQ43	289	784159	1 - 419	15 - 433	AW842475, T30776, BF184770, BF207585, BE866760, BF185766, BF572915, T34250, BE569159, AV710343, BE865603, AA307732, AV710294, BE748463, BE380139, BF695555, BF575624, BF693664, BF242001, AA224139, BF542130, BG164206, BF574646, BF244208, BF978686, BF665201, AV757001, N31447, N28523, N24472,

HMHBN86	290	784650	1 - 452	15 - 466	AA315977, N25832, BF126194, AV755045, AA315741, AA315704, AV762479, BF726845, AA306451, T35600, AV682139, AL037057, T36026, BE566339, F13092, AA308179, H11162, BF213491, AV742374, BF212261, BF215659, BE564609, BF970245, BE748359, W52454, BF210592, BE739340, BE559897, AA305608, BF671423, T36097, BE565736, BE569026, BF671079, AA313248, BF208645, BF208098, BF573520, BF214865, AA528272, BE974004, BE892418, BF382909, BF105294, T79893, BE566468, BF243468, R27532, R27490, BF105175, AA313381, BF030902, BE569069, BE379860, BF218037, AV710851, BF666664, BF692398, BE380152, BE569047, BF102492, BF691366, BF691690, BF576905, BF669240, BF031549, BF214357, W46663, BF666299, BG260730, BF184430, AL525947, BF218488, BE777709, BF574204, BF699197, BF574730, BE566636, BF666336, BF977067, BF976775, AL531298, BF670590, BF980810, BE566596, BF242973, BE276083, BE560474, BE783331, BG168761, AL533096, BE889996, BE564618, BF691316, T75448, BE887893, BF693552, BF694311, BE270115, BF694884, BF694756, BE380082, BF382504, BF242232, BF790806, BE731980, BF131875, BG171607, BF105051, BE777683, BF105035, BE568726, AV716454, BF210268, BF671572, BF028449, AV695106, Z45665, BF696872, BF030848, BE614039, BF029009, BF211214, BF219340, BF241869, BE565114, BF541353, BF103739, BF131647, BF243185, BF212175, BF671032, BF210262, BF105111, BF979150, BE564089, BF382617, BF676332, BF242784, BF217361, AL037133, BF667363, BF212615, BF671957, BF130546, BF673943, BF541664, BE777623, BE612838, BF242415, BE379899, BF541325, BE564103, BF690924, BF130379, BF979252, T74479, BF669316, BF576944, BF211705, BF184123, BF209838, BF240502, BF243012, BF698615, BF690720, BG168318, BF241242, BF247451, BF699543, BF219357, R71434, BF693543, BF216606, BF212659, BE565400, BF541652, BF030955, BF211412, BF212894, BF103815, BF240227, BF212081, BF030775, BF693533, BE565474, BG111409, BF696532, BF541362, BE868846, BE737831, BF790812, BF571542, BE564290, AW328744, AW328643, BE565162, BF215730, BF243317, BF693979, BF214143, BF743934, BF213920, BF103609, BF241131, BF028189, BF106298, BE566915, AV728134, BF573256, BF240970, BE865999, BE866322, BF208517, BF208458, BF673015, BF211464, BF211503, BF105870, AF145385, AF077034, AL110233, and AC004067.
HLTAZ78	291	784764	1 - 1271	15 - 1285	AA188631, BG107319, BE867590, and AK026841. AL526600, AW008531, AI954708, AL526720, AI693936, AI625579, AI074610, BE892520, AI653264, BE892521, AI380208, AL521258, BE858829, BG248963, BE547313, BE874107, AA732580, BE884466, AI718587, AW168885, BG150345, AW270103, AA486528, AW340471, AI343412, AI633274, AI247394, AW770249, AI243322, AI129112, AI799900, AA152076, AW196976, AI969017, AA151991,

HLDBM50	292	784930	1 - 1497	15 - 1511	BF000572, AA461171, BE018430, AU154488, AU145202, AA992258, AU151129, AU154523, AU149226, AI338436, BF246278, AL043366, AI538424, BE465882, AU158637, AI565812, AA263168, AI861839, AI299179, BF939669, AA151240, AI421724, AW949494, AW002584, W60404, AA115302, AW949496, AI743145, BF939699, AA130370, AU153808, AW005951, AI951952, BF437848, AI676045, AW029000, BF475675, AA485923, AI076510, AW803506, AA053350, BF214480, BF594667, AA150086, AI862085, T71085, AA116103, AI703376, AI969406, BF438960, AA598647, AL135414, BE894426, AL043368, AA552075, T71024, BF109246, AA151241, H52069, AW183396, T32247, AW263072, AW294682, H28799, AA005205, AA678504, BF764527, AA150021, AA215449, AI719333, BG254391, AA116104, H28819, D29392, H52070, BE312293, BE772139, AI766861, BE715614, AA600190, BE899121, AI874093, AA005206, AW371779, BG179973, AW392384, R44379, AW371803, AW382234, AW382221, AW382454, T30558, AW382230, AW382494, AW382495, AW392379, AW392380, AW382473, F13716, AW366552, AW382233, AW382209, AW382215, H02650, AW371806, AW371780, AI287628, AW371784, AW382463, AW382465, BE205965, AW382245, AW382479, AI003877, AW392377, AW382243, AI538425, AW382464, AW392383, AW382485, AW382492, BE960622, AI868817, AW392381, AA707364, AW382242, AW371821, AA121069, AW382448, BF132449, AW382244, AW392376, AW382486, AA648817, AU118702, AA361216, AW382217, AW338599, AW382459, R24574, AI679422, BE019290, AI679933, AW382475, W60124, BG253232, AW803489, R24574, AW382244, AW392376, AW382486, AA700179, BF822855, AW138960, AW803505, AW384298, AW382459, AA693589, AW206115, AA908946, AW794784, BE502998, and D86978.
HHEDH33	293	785013	1 - 527	15 - 541	AW970247, AA749081, AW970328, AA242881, AA534752, AI767158, AW134505, BF001990, AI222246, AA766655, T81312, BE001722, AA764820, AA767994, AA282886, AA983324, AW262486, AI200540, T81840, AW994525, and BF746861. W07333, BF966356, BF345047, BF966166, AV706030, AL532785, AI929589, ALS33353, AV723356, BF791175, AV723613, W37917, BF967376, AA306202, N78175, AA355342, AJ146458, W77834, AA010474, H38038, N72450, AA169869, H50965, AI655965, AA312530, AA354371, BF678700, AA805036, AI566732, BF102698, AV761465, AI948482, N64212, BF214204, AA306939, AI760966, AA515863, AA347822, BE242703, N31260, AI953952, W16828, AA328013, AA648335, R57511, AA325779, AA329322, R50284, BF213966, T93146, AV740787, AA357064, AA356670, AA328151, N42259, AA306801, R01594, BF240302, AA768073, AA285240, AA328907, W72197, BF511262, AW001742, BF214042, AA515854, BF929192, AW972835, AA283306, AI077300, AW338181, AA356764, N32815, AI015666, BF057072, AI472098, AA742803, AA677584, AW301679, N58011, AW105514, AA730357, AI128690, AV735482,

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HAIDL86	294	785497	1 - 450	15 - 464	AA330427, AW961567, AA207037, AW612514, AI972017, AL044564, AF097027, AF097026, AL137064, AC007394, AF290421, AC002992, and AL078590.
HTEPF14	295	785958	1 - 696	15 - 710	AA429918, and AA813674.
HOEDD04	296	786659	1 - 1140	15 - 1154	AW299799, AW084139, AW242363, BE552186, BF112070, AI823595, AA931217, AI625868, AA741511, AI015177, AI640397, AA706004, AA582716, AA706025, N62554, AI421672, AW139031, AW205790, AI039797, AI983142, AI094692, AW770391, AA599803, AA111973, AW770810, AI612830, AI910734, AA974688, T34710, AA204852, AW380711, AA083691, M78458, AI817638, N79222, BE220738, BF760186, AW380703, AI609833, AI360898, BF740075, AI381705, AW194879, AW864253, AI094606, AA708986, AA748372, BF091355, BF736748, AI580218, BF943536, D19947, AI917379, AC023154, and AK024713.
HODBK89	297	786830	1 - 517	15 - 531	AI909710, AL519788, BF205386, BG025642, BE165754, AU134287, AW853154, AI203203, AW235417, AI633942, AA808812, BF437493, AI198588, BE270126, BF680360, BF681547, AW149313, AA702729, AL040061, BF846782, AU117305, BE384952, AA576336, BE147416, AA613345, AI700109, AV655096, AI963720, AW002350, AW965008, BF964993, AV758600, BF030591, AL119984, AC013357, AK000579, AB037772, AL137699, AK001368, AC009516, AC018751, AC011442, AB023049, AC008079, AP000555, AC000353, AC005180, AL139342, AC008403, AC005182, AL049709, AC008745, AC007308, AC005736, AC005377, AC003101, AC002558, AC005747, AF111169, AC006539, AC002991, AC008521, AC008651, AX039602, AC020917, AC005695, AP000688, AC007011, AC006345, AL049694, AP001724, AC011455, AC006004, AC004659, AC007263, AC011484, AL121601, AL049840, AC023105, AC009247, AP001732, AC007279, AC004890, AL109865, AC004865, AL031662, AC006965, AL136300, AL110502, AP000088, AC016025, AP001692, Z97056, AL159977, AC074338, AC005527, AL033504, AL049540, AL136234, AP000362, AL445217, AC005922, AL031276, AP001714, AL096791, AC079603, AC011811, Z95114, AC009756, AL162430, AP000553, U89337, AC000003, AC020904, AC005098, AL121752, AL008721, AC005988, AC007383, AP001752, AC011475, AL033529, AC007845, AC006143, AL110115, AL031293, AC010789, AC005520, AC004166, AC005914, AL096700, AC003109, AF235098, AL355497, AL121825, AP001696, AC004638, AL049871, AL355385, AL008629, AC004477, AC005859, AC003091, AC002430, AC002301, AL445490, AL049759, AP001039, AP001685, AC007384, AL391122, Z86062, AC004867, AL139350, AC010422, AP000114, AL139382, AC010877, AC005250,

				AF217796, AF317635, AC005284, AL356575, AP000692, AP001666, AF165142, AL031005, AC006312, AC005829, AC011495, AL157938, AP001681, AL158046, U91326, AC010470, AC005486, AC005081, AL137039, AI003147, AL022719, AL390028, AL136137, AC007956, AJ239322, AL109804, AL050335, AC006449, AL022476, AC004826, AC007040, AC007245, AP001747, AC006468, AC040163, AC020934, AC006501, AP001725, and AP000512.
HMUAZ89	298	1 - 2011	15 - 2025	AU119217, AU142997, AU126470, AU137552, AV707724, BE885641, BE882395, BF978996, AU133265, BE880546, AU145615, BF768553, BE885051, BF978238, BG109892, BF030417, BF979389, AI025750, BE890586, AU160170, AI476238, BE907761, N24914, N22841, AW239265, AW614479, AI921501, AA147622, BE769266, AI609379, BF675563, AW630231, BE940553, N28649, W24887, AA406583, BF899751, BF058794, H83590, AV690969, T71923, H82720, N36040, AU118939, R81776, BE890462, T87819, BF923426, R81524, AA147660, AA410263, AW615045, N46516, BG112667, BG035201, AA808254, AU123447, BE930817, AA248172, BF130062, BF244860, BE931706, BF977853, BG008198, BE930818, AA389677, BF980328, AC007541, AK024021, AK022770, AK021783, AK001731, and AL117658.
HSBBB92	299	1 - 1329	15 - 1343	BE675230, BF058529, BE674332, AW614474, BF058378, BE673956, AI927890, BE348830, AW517448, BF195636, AA393795, BE348840, BE670412, AW194958, AI569662, AI339198, AI298526, AA393737, W32966, AI362851, BF056919, AA421844, BF940522, AI015297, AW206859, W96354, AI720718, AW135892, AW339997, AI017522, AL121261, AA720627, BF224376, W96353, AW382742, AA808037, AI203573, AA406312, AA836578, AI377825, AW382721, AW382720, BE348820, T06376, T65425, AW752740, AW087789, T35605, AF012360, F09476, AA346740, AI650529, AF012384, AI073493, AA974605, AA884921, AW771989, BF214235, AA742618, AI147995, AI142281, AW798213, BE177396, BE709258, BE709249, BE177395, BE709252, AW662013, BE177412, BE177405, AI207115, AI216652, BF433408, BF116085, AI057029, AI073990, AI139633, BF035385, BE884638, AA909122, AF208855, and AC005943.
HHBGJ75	300	1 - 566	15 - 580	BF967514, AU134850, AL526580, AI815450, BE302873, BF980663, BF968709, BE391049, BE389214, BF237784, BE263463, BE254555, BE514230, BE784473, BE548313, BF663215, BF346762, BF525597, BE895887, BE729721, BF980558, BE544002, AA082886, AA551276, AW327921, BF339883, BG168759, BF247777, AX011651, AJ005896, AK023433, AF196779, and AF229636.
HDPRY22	301	1 - 595	15 - 609	AI762801, BG108111, and AC004990.
HBBBC20	302	1 - 1293	15 - 1307	AW242755, BE539127, AL079357, BE274889, BE780196, BF213445, AV760694, AL134812, AI765812, AI061435, AL037306, AI041196, N29256, BG120268, AI990008, AI678128, BE384590, W45589, AW615370, BF966835, AA889860, AA702333,

Name	SEQ ID NO	No			Accession Numbers
					AW172266, AI808427, AI028431, BG110600, AI018204, W27650, AI469442, BF108748, AW337992, W45588, AI611633, AI469430, AA309624, AI302403, AA992610, AI037907, AA769552, AW294502, AA627210, AW613678, AI902952, AA376458, AA210868, C75376, AI052194, AA344419, R55613, BF917319, BF917393, BF111418, AW238413, AA854386, AA053729, AA835816, BG036729, D81811, AI085052, AW769528, AA054679, AA813667, N20543, AI200075, BE897758, BF081943, BF671216, AA056435, AW663287, AI816805, AA643494, AA643488, AI682727, AI619999, BE813101, T83597, AW265138, AA724224, and AF001175.
HMELW08	303	789955	1 - 1232	15 - 1246	AU131931, BE536781, AW402730, AA307816, BF511363, T80567, AA312254, T08529, H16029, H15919, BE812792, R50588, BF903474, H10920, T19093, BE815585, BF921422, BF903459, N22528, AB018268, and AK023218.
HTPDL90	304	789115	1 - 1433	15 - 1447	BF980029, BF979952, AA861754, AI041049, AA974148, AI025824, AI015271, AA973722, AI262750, BF507838, BG037192, AF012394, BF979566, AF260330, AF269223, and AL138721.
HTACZ08	305	789276	1 - 1333	15 - 1347	BG031756, BE743909, BG163922, BF568433, BE379243, BE786070, BE392183, BG105120, BE788274, AA280226, BE280190, AW967679, N35741, AI857402, AA477013, AA835014, BE164855, W93807, AW778886, AA704804, AA921827, BF569835, BF570343, AW403371, AA381259, AW967685, AW403003, AA292772, BG235910, AI079554, AA321629, AI143216, AI763030, AW243050, AI765833, BE830851, AI884606, AA705078, AI949689, AA252009, AI335326, AI338729, AA983569, AW629265, AI963754, AI281191, AW294001, AA279011, AA767672, AA476900, N49211, AI241107, AI392855, AA557282, AI032953, AI087153, AA251779, AI636442, AA249593, AI376580, AI823966, BE712575, W57586, AA731007, AW194627, N50263, AA278476, AA336093, AW963903, AF172244, AK025973, AF131220, Z74023, and AF188706.
HAGEC91	306	789377	1 - 608	15 - 622	AW363486, AI914741, AW861651, BF694382, BF575851, AW857983, AA847414, BF801065, AI904812, AI963431, and AU153706.
HTTCB23	307	789555	1 - 1810	15 - 1824	AU127415, BE877289, BE742573, BF036861, BG029551, BE886701, AI859249, AI742547, BE780605, BE740104, AI768395, BG167281, BE178193, BE177835, BE178349, BE783927, BE178194, BE393733, BE513127, BE879057, BE207514, BE514898, BE276173, AW364748, AU154706, BE302681, AW513821, AW955752, AU148735, AW364787, AU147737, AI820072, AA807512, AI672793, AI138220, AI624654, AI538330, AW837961, AU150892, BE312071, AU149295, AW263238, AI341822, AI077392, AL134933, AA040573, AA598412, AW135642, W35215, AA629672, AI680161, AI358554, AA848068, BF361284, AA936121, AA916037, AI306440, AI313477, AA972982, AW800651, AW193945, AA773533, AI200664, Z39803, H62189, AA040671, Z43743, AI394357, T85669, BE393061, N74147,

HYAAL21	308	789607	1 - 1868	15 - 1882	AI955026, H62190, AI189225, W04314, AA830115, BE208417, AA916068, T51503, AW800612, AU124977, BF678009, AA587433, AW626572, AW062989, T34513, AF280096, AA332026, AW002203, BF803737, H73963, BF956101, W68507, BE836040, AW991222, AI936216, BE893602, AA323146, AI799875, AV660965, AW081686, AA872046, AI524535, AA366999, T47876, W23625, AW384787, AI446677, AL040170, BE161650, AU125685, BE280147, BE161623, BG117395, R07637, BE902901, AI611580, AI611471, AI345528, AI559978, AU133352, AA747668, AK001741, AK022709, and AF291064.
HTLHY91	309	789660	1 - 966	15 - 980	AL514580, BE908546, BF694943, BF692909, AI655972, AA523409, AI809237, AW328507, AW137703, AI377032, AI872211, AA523391, BG231563, BG032081, AI381901, W56565, AI248517, AI217725, AA009534, AW328508, AI150552, AW769415, W92392, AW905043, AW613735, R95131, BF509506, AI241274, BF590059, AA609120, H67840, AW194863, W92335, AA580479, AI912966, AI142666, AW243314, W56787, Z25384, AA531424, AA620439, AA334258, BF593355, R08496, N76255, AI678791, F17380, AI217148, AW057531, AI825787, and AL139395.

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					D80522, D80193, D80196, D80045, D80219, AW965158, AW949629, AW949632, D51060, AW966385, AW966386, AW966331, AV720812, AW949658, AW966378, D59927, AW966368, AW966397, D57483, AW973330, D59610, C14014, D80378, AW966043, D51022, AV720533, D59889, D50995, AW966032, AW960532, D80024, AW956397, AW973447, AW959469, AW964737, AW960454, AW959582, D80024, AW949645, AW949633, AW949631, AW949643, AA514186, AW949618, AW949653, AW949655, AW360811, AV701839, AW752082, AW753053, AW177440, AW949657, AW966023, AW966389, AV718530, D80302, D80251, D80241, AW973465, D80268, AW966023, AW966389, AV718893, AV700889, AW960504, AW960564, AW965176, AW966379, C14429, AW178893, AV700889, AW966329, AW966377, AV718487, AW377671, AW375405, AV699746, AW949630, AW966329, AV719913, AV654329, AV699669, AV655880, AV701004, D80247, AV718681, D80439, AV719913, AW960570, AW960570, AV719628, AV699652, AW177731, AW975623, T03269, AW179332, AW960570, AC004228, AX027925, AX033851, AR070327, AF139813, AF084557, AC003025, AC004228, AX047063, AX047064, A62298, A62300, AB028859, AJ132110, AR087649, A84916, AF058696, A82595, AX021518, AR060385, X67155, Y17188, AR008278, AR018138, AF058696, A82595, AB002449, AX028130, AX020191, A94995, D26022, Y12724, AX035434, A25909, AB002449, AX020190, AR008443, AX047062, A67220, D89785, A78862, D34614, AJ302649, X82626, AR016808, AR016514, D88547, I50126, I50132, I50128, I50133, AR052274, AR074139, Y09669, AR025207, AR077702, AR060138, A45456, A26615, AR066487, AR074136, I14842, A30438, AR066490, A43192, A43190, AR038669, AR066487, Y17187, A63261, AR008277, AR008281, AJ294956, AR054175, D50010, I18367, AR091537, AR062872, A70867, AR093385, AR016691, AF260572, X64588, AR008408, AR074545, AB012117, AX015396, I79511, D13509, A64136, AR016690, U46128, AR074545, A85396, AR074141, D88507, AR066482, A68321, AR060133, X68127, AJ287395, A85477, I19525, A86792, X93549, AF123263, AX042372, A44171, AR088705, AR060382, and AR008382. AR032065, AR060382, and AR008382.
HUTAD91	310	789688	1 - 499	15 - 513	BF965807, AV685993, AA150787, BF971054, AA147514, AV683322, BF688513, BG107778, AA099345, AV724899, BE812238, AW975316, AF083068, AX008894, AL050034, and AC006255.
HKGDE58	311	790091	1 - 518	15 - 532	H12041, R13858, H05358, Z46111, T94956, F07044, F05720, AA454139, AL526738, AA287162, F05717, AW601999, BF575540, AA448686, AW373077, AK001328, AL136125, and AL122084.
HBIAW78	312	790219	1 - 1037	15 - 1051	AL514332, AL536830, AL535522, BG113578, BE790102, BG251666, BE274244, BE544087, AU119954, AV750996, BF527939, BF961404, BE006066, BE144607, BF215713, AA489325, AV647447, AA306990, AA322361, AW955025, AA146767, BE147938, BF853343, BF238369, AA402007, R25971, BE865440, R29542, AA503433, BE865363, BE618234, W88970, BE618770, AI567713, BF694101, AV646465,

Name	No.	ID			Sequences
					AV646618, AV646651, AF078849, AF181992, and AK001081.
HTOIC11	313	790634	1 - 902	15 - 916	AL523818, AL515916, AI003763, BF853876, AI884669, BF341886, AW964073, AA257165, AI701716, AI668925, AA346322, AA642712, AI934554, AI401259, AI363419, AA715044, BE825965, AI611190, AA760750, AW140054, BE825961, AL522818, AK025955, AK022743, AL031716, and AL031008.
HNTRM40	314	790790	1 - 432	15 - 446	H09686, AL037822, R35089, AL037802, AV752654, AV754822, BF212250, BE564130, BF967422, AU119704, AV753730, BF184625, BE168318, BF213048, AW296231, U96750, AF202543, and AK021882.
HSKAY30	315	790807	1 - 1719	15 - 1733	BG254949, AA523696, AI693488, BF983882, BE783010, AW082970, AA847735, AA504846, AI525023, AW771022, BG023824, BG260412, AA331650, and AK024639.
HSSJN12	316	791489	1 - 491	15 - 505	BE744656, BF875090, BE736886, AA347493, BE837723, BF772194, BE837781, and AB002335.
HTFBG93	317	791501	1 - 470	15 - 484	AL522953, BE790527, BE394934, BE791897, AA769247, T97494, BE837545, and AL031320.
HCHOO84	318	791776	1 - 1250	15 - 1264	AL530086, AL518462, BF435744, BF447607, N62931, AU147014, AU150965, AW069065, BE813285, AA908771, W60768, AI884492, BF939732, AW341210, AI870977, AW952157, AI333834, AW138263, AA971553, BE218074, AI921995, AA039992, D60225, AA039937, D60356, AI741709, AI088942, AA970111, AI151230, AA825342, AI191038, AI285234, N29706, BF221801, AI032842, BF509341, AA705221, R37647, BF476232, D60227, AI951862, AA854144, N56713, D45331, AI186560, D81526, AA319580, D60224, BE550645, T98202, D81364, R40429, T23823, T98203, AA091871, Z41754, F04521, R25601, BE085502, F32155, R26997, R63501, F01808, AW079908, AA910798, AL514129, AW274192, AL514919, AL513755, AL514473, AL514627, AI620639, BE047852, AI537677, AL514691, AW827289, BE048071, AW673679, AI491852, AL513907, AL514015, BE018334, AL049085, BF527014, BG031815, AL045500, BE895585, AW087445, BF341801, AL513991, AL514791, BG164371, BF812933, BG120816, BG180034, AW150578, BF338723, BE876033, AI702406, BF970449, BE874133, AW827276, AL514063, AL040243, BG058398, AI815855, AI536638, AI499463, AL121365, BG252040, AI275175, AI439745, BG118199, BF792469, AI524671, AI433976, AI269862, BF795712, BE963035, AI500523, BF791874, AI433157, BG252929, AI539771, BE047952, AI500659, AV682521, BF726297, AI815232, AI590227, AI284517, AW071417, BF792961, BG179993, AI866457, BG036846, BG032208, BF038131, AL043981, BE887488, BE904178, AL514047, AL513553, BF812438, BE888745, BE877769, BG163618, C16221, AL513757, BF344031, BE047738, BF727092, AI284484, AI802542, AL513763, AI624279, BF794994, AI554484, BF726322, AI612913, AI620284, AI491776, BE047737, BG178130, AL514721, BG257535, AL513693, AW827249, BF971016, AI636445, BG110517, AW104724,

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AI624206, AW008048, AI630928, AL514087, AI619502, AL515413, AW026882,
AI440239, BG112718, AI590415, BF812938, BE905335, AL513597, AI922901,
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AI064830, BF868489, BF983030, AI610402, BG222103, AW071349, AL047763,
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BE894455, AI783504, AL045266, AI251485, AV757455, AI583065, AI521012,
BE875407, BE048081, BG026194, AI445237, AL119791, AI318280, BE612435,
AI926790, BE048135, BF725868, AI627360, AW827175, BE048179, BG034554,
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AK026858, AK001449, AF119899, I89947, I48979, AF314091, AL110221, AF113694,
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AF116631, I89931, AF116691, AL050138, AL137557, AF118070, AL133075, AL157431,
AL133557, AF116688, AK027096, Y11587, AF090901, AL389982, AL162083,
AK025084, AF113019, AL096744, S68736, AF090934, AL050149, AF138861,
AX006092, AL050277, S78214, AK000618, AF130104, A08913, AL122123, AF116644,
AF113691, AF113699, AF130092, AF158248, AF111847, AL050393, E07361, AL110196,
AK026744, AF130105, I48978, AF113690, AF104032, AK026865, AF119875, AB048953,
AF119878, X84990, AL359601, AB019565, AX019230, AB048964, AL133080,
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HE8OX93	319	791839	1 - 663	15 - 677	
HOFMV90	320	792393	1 - 1903	15 - 1917	AL527021, AL526200, AL526350, AI050883, AU134117, BG026013, BG259988, BF033515, AV716795, BE439902, BG179153, AL042527, BF304912, BE538799, BE382941, AU139020, AV712482, AI309770, BF978297, BE645313, BE787686, AV716214, AA311634, AV734344, BE960641, BE961125, BF573492, AW965265, W73750, AA401968, N35837, AI742995, N36891, AW971144, AV733417, AW517372, AV711971, AI041584, AW971147, BF310776, BE247208, AW952915, AA082936, BF928266, AA493138, N99449, AI034056, N46165, R52971, AA401865, H10638, AA402092, BE780248, AA780421, AW608404, AA306957, BG169769, AI590139, H00105, AA083025, AI092921, H08013, AI628586, BE177337, AI935506, BE246188, AW517668, AW373342, AA224056, BE046992, H13899, AA342921, BE770564, AI816971, AU150195, W73812, AA336365, AI522277, D53529, AU154142, BF999012, AU157858, AI375080, AU155221, AW167257, AA155723, N26439, AU144469, AW380567, D62082, AA375213, BE244104, R19026, D81795, AW858988, BE246253, AI095132, N24634, AI277653, AA330335, D61867, AW467017, AI683850, AW293986, AI074423, AI620479, AI738927, AI884521, AI092588, AW104036, AA331411, AI421502, AW189872, AI338456, AA135131, AI753960, AW590921, AI624639, AA471321, AI708833, AW589398, R52972, AA989469, AA721635, AA136512, BF964608; AA090730, BE715023, BF106291, AA045168, AI700880, AW132016, AA620323, AA401653, N88865, T25958, H10639, AI469001, AA889498, R30679, AV759628, D60491, N84400, R44097, AA170811, AJ125850, AA248434, AA091440, AA585404, H05034, N71576, T17227, AI568236, AW858995, BF687898, W47457, D29149, H07917, AI929565, AL117566, AK002159, AF046024, AB012190, and AF077330.
HTEFV95	321	792575	1 - 561	15 - 575	AA173831, AA034149, AW962438, AI925174, AA173779, AA366630, AA034150, AA360960, BF309923, AF041449, AF099929, and AK022448.
HETJA44	322	792627	1 - 811	15 - 825	AW836230, BE158913, AA329381, BE167153, and AW856475.
HE2DR93	323	792628	1 - 847	15 - 861	AA418082, BF510463, AW467395, BF854199, BE855594, AI952246,

HAJBT15	324	792938	1 - 1382	15 - 1396	BF853588, AI094404, R09112, Z12841, and AF045454. AU131406, AU141725, BG163897, BF347918, BF346907, AU122008, BF975998, BE891861, BF663133, BF664526, AI819377, BG164313, BE617220, BF983352, AW961647, BE617116, BF726997, BF347745, BE384672, BG031017, AU129365, AI831967, AA488219, BF662863, BF725683, BE392172, AA738492, AI640490, AW961648, W22839, AI992171, AA84213, AW163566, BF111424, AW961641, AW163568, AA678324, BF203809, BF771379, BE744165, BG013365, BF109059, F07379, F37155, T56819, AW452233, AA323153, AA044212, AI470388, F28906, AI338151, BF927951, AI671891, AI565261, BE392966, BE545940, AA934966, BF772163, T91185, T53324, T84157, AK022317, and L31783.
HDBAD63	325	793148	1 - 1126	15 - 1140	BE741265, BE312413, BE745699, BE733480, BE737309, BG118733, BF311514, BG120868, BE513907, BE780900, BG163371, AW071761, BF206573, BE269413, BE396552, BE746313, AI831605, AW167551, AW301113, AW080934, BE884756, BE269971, AI871908, BG115974, AI400607, AA610308, BE514333, BE262303, BE269640, BE397496, AA308486, AV710504, AI359438, W17314, AW006373, BE543973, AA748535, AA613105, AA858196, AA552239, AA808351, AA865656, AA252191, AI206006, AA307614, AI362958, W92610, AA856552, AI223781, AI318256, AA317879, H63355, AA748698, AI313332, AI363160, H08800, AI349795, AI348900, AW268739, AV737162, AI249393, AI224288, AW269073, AA748697, N78942, AI142521, AA775898, AI094210, AW798313, W95235, AI031635, H06255, AA252190, H87140, BE789797, AI640394, AW296500, AI220261, AI246242, BF438631, AA356102, AA767679, AA761033, R36895, AI358153, AW007922, AA811788, AA992865, AA299716, AA953952, BE514515, BF214503, AW451143, F30133, BE041924, BE535691, BF215139, F36531, AA613122, AI583498, AA299992, AA299715, AW192973, AI457450, BF952078, BF206656, BF214871, AW351886, AW351888, BG236825, AI305300, AI308609, BE042236, AI318574, AI345152, C02485, AI311246, AI340868, AI252028, AI284831, AI349755, AW072504, H08877, AA635481, AK026104, AF151076, AC004832, and AC005585.
HE8QH85	326	793204	1 - 532	15 - 546	BG033816, BE906522, BF688514, BE727928, BF038689, BF315341, BF341913, BF692375, AL533958, BE563977, BE384582, BF125330, AW674780, AL527387, BE933599, BE388832, BF685907, BG167409, AW391980, BE734897, BF342476, BE765142, BF724371, BF929837, BE737113, BE890522, AI554624, BF751581, AW401574, W76458, AW411042, AV690680, BF691173, BE385234, AI313133, BF309365, BE892657, BF026973, W61124, AV748279, AA357067, AW360837, AV753587, AV690264, BE729633, BF819088, BE739848, AL138163, C18294, AW753259, AL533091, AA852415, AL526711, BE383081, T35790, BF306138, AL533957, AV750893, AA331917, BE167364, T35980, AI909669, T30710, AA115838,

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HAICU52	327	793373	1 - 1136	15 - 1150	AL526154, AL524709, AL523425, BE544298, AL523426, BF306790, BE544293, BG177191, AL524642, AL524641, AL530280, AL525941, AL524710, AW411029, AW964098, AL528560, AA535031, AI628434, BE677815, AI911127, BF001389, BE669506, AW275368, AW083365, AI459053, AL529164, AI700697, AW991515, W25488, AL529163, AA321496, AW991379, AA357110, AI433067, BG252187, W19325, AI279622, AI638823, AI671554, BG057262, BF307602, BF796767, AW411028, AA894653, AA374390, and AL530279.
HE6BJ49	328	793433	1 - 1949	15 - 1963	AL515827, AL515826, AL515466, AL119219, BG105611, BE780167, AV715361, AL538016, AV650881, BF980128, BF980045, AV650886, BG257556, BE783853, AA524019, BF341382, AII40326, AL515465, AV756884, AV649635, BF979747, AI457836, BG028526, BE884906, AI813685, BE789320, AV711501, AII85629, AA403195, AW028038, AI820046, AI808798, BE395601, AI094821, AA703293, BF979508, BE834481, BE779514, BE178346, BE178031, BE178177, BE539269, AI633143, BF197142, BE178004, AI816930, AI905561, AI096795, BE178023, AA447266, AW273999, AA234459, AI703330, AA706011, AI829576, BE936920, BF966456, AI347915, AI889382, AW173635, AI423124, AA725548, AW172746, AI140084, AA453099, AA236583, AI458404, AI400126, AII31485, AI436783, AI936016, BF576243, AW662463, BF240101, AW196824, AW473640, AI694031, BF512775, AA809134, AA116134, BF433366, W03419, AA976311, AI927986, AW190800, BE718224, AI985477, AW080021, AI458412, AA315065, AI090025, AL532665, AA101072, AA883532, AW467740, AI446055, BE178179, AI888105, W58544, BE543902, AI264004, AW954289, AA453538, AA082742, AA164718, AA642442, BF575440, AI310082, AW162771, AA279735, AW296515, AA448291, AII39289, AI823697, AA448220, BF243182, BF223307, AA227816, AA134131, AI041884, AV708050, AI422542, AI040174, AV655144, AI079649, T79246, BF438880, W58509, AV649699, N52069, AW419337, AI264008, AW296596, AA448431, AI811217, BE220570, AA349640, AI341524, AV757359, H92809, N72857, AA234446, AW050477, N66494, N57501, AA860306, W68441, BE931918, AI282140, AI674801, AV651160, AV649813, AA234068, N91425, AA806011, AW204791, AA614788, AI368226, AA164980, T08107, AA227990, AI284230, BF028962, H97585, AA480805, AW085005, AW768944, H06332, AI636532, AA204754, W47140, AI375979, HI8564, R17372,

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HDPBIJ94	331	1 - 469	15 - 483	AI970509, H23104, N45556, AL040461, AJ003449, AL078614, AL137712, AL139008, AL109748, and AL163204.
HPIAX11	332	1 - 1369	15 - 1383	BF971376, BE879463, BF686451, BF978313, BF345131, BG107146, BE789873, BE156256, AW955131, BE541602, H16422, BE778233, BE177218, BF889194, AA312500, AA491370, H96397, BE706959, AA452643, H00754, AA354863, BE892837, N46768, AA319616, AW971090, AW601929, AA508905, AW601956, T69203, AW601901, BE515196, AI077759, BE763783, AW403746, AI299904, AA894404, BE707609, AW869103, BE079404, BF888077, T77850, AW391033, BF374109, AA778928, BE394658, BE222919, BF447648, AW118121, BE550919, AV753221, BE085498, BE831059, AW070649, AI271452, AK000823, and AL031427.
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HFIBG92	793632
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HPIAX11	794354
HBGMW9 5	795325

HUSIJ83	334	796477	1 - 1109	15 - 1123
			AV718938, AV719783, AV720028, D59502, AW959597, AV718633, AW959628, AW960473, AW965177, AW975605, AW966378, AW959570, AV719468, AV718800, AW973423, AA305409, AW965185, AW965197, AW965196, AW973485, AV718707, AW965184, AW973488, AW966386, AW965175, AW966400, AV720211, AV718931, AW962395, AW966368, AV720878, AV718844, AV720464, AV719557, AV720616, AV718770, AV720731, AW966332, AW966331, AW973482, AW966398, AV699447, AW378532, AW966397, AW966380, AW958992, AW958993, AW966390, AV722801, AV723927, AV724520, AV721784, AV699550, AW699866, AW959136, AW956397, AW959062, AW964477, AW956434, AV699550, AW964488, AW949641, AW962082, AW949656, AW964468, AW949630, AW949654, AW964532, AV699927, AW949642, AV739950, AW959202, T03269, D81030, D51060, AW949632, D81026, D80269, C14014, D80212, D80366, D80196, D80188, D51022, D80248, D50979, D80219, D80522, D50995, AW352170, AV738340, AW973447, AV701443, AV701419, AV701422, AV745080, AV744934, AA305578, D80038, C15076, AV742671, AW377676, AW352171, AV723097, D57483, AW966379, AW966043, AW177731, D59889, D80133, AW178907, AW753041, AW178762, AW962245, A94995, Y12724, Y17188, AX028130, AR087649, X82626, A84916, AX020191, A67220, AX047063, AX047062, AX047064, D89785, A62300, A62298, AX027925, AB028859, A78862, D34614, D26022, AJ302649, D88547, AJ132110, AX033851, AR070327, AR018138, AX021518, AR008278, X67155, AX035434, AX020190, AF058696, A25909, I50126, I50132, I50128, I50133, AR025207, AR008443, AR066487, AR074136, AR074545, I18367, AR074139, A43192, A43190, AR066488, D13509, A82595, AR016514, AB012117, D50010, AR060138, A45456, A26615, AR052274, AR038669, AR008408, Y09669, AR060385, A30438, AB002449, A85396, AR074141, D88507, AR066482, A44171, AR088705, AX042372, AR060133, and AR008382.	BE299536, AW410054, AA029709, BF725048, AI185838, BG028965, AW993833, AW607584, AW150237, BG236373, AA972593, AW169689, AW090826, AI858996, AI565091, AA761356, AA768292, AI188109, AW614806, AA827689, AI687658, AA908721, AI633546, AI687676, AI287857, AI288342, AW953241, AI290467, AW170763, AI200723, AI318408, AI458268, AI955558, AA677209, AI205277, AW167207, AI951025, AI934191, AI393399, BG028292, AI758328, AI289811, AW798324, AI351976, AW510522, BF593808, BF857062, AA699748, AW367992, AA913325, R02139, F08977, R39345, AA404220, AI914359, AI698406, AA404686, AI911043, AA767506, AA593292, R02435, AA903530, BE300377, AI862968, BF950755, R26023, N26911, BF832096, BF083877, AW939011, BF216118, AA029641, AA350367, AA383715, BGI18825, T79981, AI884411, AI497875, BF305629, BF307808, BE645399, AA350368, BE149550, AA323658, and AB028741.

HBGDP38	335	796622	1 - 483	15 - 497	
HTXEC55	336	798103	1 - 982	15 - 996	AL522930, BF446693, AI869988, AW295294, AI871020, AI291088, AA424317, AI922729, AW081155, AI357811, AI683996, T16074, AI802787, AI811165, AA451751, AA683352, AA877970, AW298706, AI091074, AL528797, AA679407, AA262395, R39774, F37288, AW583965, BE247730, F31394, AI337442, AI862988, BG059596, R01000, AW958999, AW264098, AI865004, AA257153, AW293693, AA257062, AA213899, AA204683, AI867617, AA360510, BF869948, R00999, T15823, H18863, AI572426, AW168778, AW972279, AI758538, AI439664, AI610671, AI924051, AI309306, AW025279, AI096771, AI669864, AI539560, AI950877, AI372009, AW151974, AI625444, AI923989, AI568138, BG114901, AI886355, BF337541, AW150750, AW129160, AI433611, AA480074, S63521, AF119899, AF171061, AF093119, AK024978, AR081734, AL137459, AF308801, AF118094, AF113694, U42766, AL161995, AL050172, AL049430, AL080110, AX015416, AK026959, AY007109, AF227198, AK025375, X52128, AF090886, S69510, Y09972, AL133560, AB050431, AK024855, AF130110, AR055519, AR005195, AK027121, AK026659, AF090900, S82852, AJ010277, AB05219l, X57961, AF116698, AK027173, AK027181, AF130089, AR083283, AK026642, AK027260, AK000391, AR053103, A12522, AK026356, AF028823, AF069506, AK027188, AL117435, AL161954, U02475, AF081366, S69385, AF118558, AK027142, AL137259, M79462, AL137479, AF161418, AF119896, AK026624, E01812, AX015425, AL096751, AF140224, S66283, M85164, AL133029, AL137465, AK025414, AB048975, I22020, AP001857, and AP001857. T58354, and T58399.
HFXGI63	337	799513	1 - 2506	15 - 2520	AU132633, AU119136, BE799425, BE780992, BE793190, BF217040, AA779588, BG028776, AA199859, AA779718, AA664343, AI751072, AU152580, AW962822, AA633737, AA355825, R20381, Z42654, F08207, F02149, AI609972, AW500029, AI732151, AA199929, AW779609, BF681619, AW270768, AW819125, AW069227, AI291037, BF946053, AW237905, AW271917, AA504818, AW468372, AW572721, BE301584, AI357823, AU152561, BG222813, AA584484, BE062476, AW190505, T06202, BE062478, AL079734, T74524, AW080811, AI732120, AW963463, AI249683, BG010084, AA829065, AA704393, AA487226, AI754037, AI612142, AA904275, AI564185, AI017251, AI049630, AL138329, AI634187, AV756491, AI445883, AI753365, AW674258, T57767, AW963444, AA630854, AW969941, AV710045, AA527209, AW191886, AW873261, AI251576, BF991208, AA558404, AA536040, AI859946, AW028429, AI583252, AI753672, AI446205, BF743814, AK025915, AK001590, AB046624, AC007792, AC011465, AP001753, AC007619, AC007055, AC026805, Z95152, AL117382, AL049569, AL031431, Z93016, AF019413, AL021578, AF053356, AL050349, AF314058, AL450226, AC004771, AC007384, AL133274, AF168787, AL121712, AC009123, AC020904, AC006241, AC020996, AC007292, AC008264,

HAMGW1 9	338	799889	1 - 753	15 - 767	AC012667, AC004906, AL137039, AL122020, AL022476, AC011510, Z54246, AL45705, AL050335, AC002365, AP000502, AC005180, AC006111, AL121753, AL121601, AC005038, AC021752, AP001728, U95740, AC007225, AL031685, AC011469, Z97053, AP001054, AC004650, AL023653, AL022323, AL050318, AL031388, AC083874, Z85987, AL033547, AC005703, AL035683, AF139813, AP001752, AC008119, AL033527, AC009238, AC004655, AC006966, AC010605, AL359704, AC003010, AL031737, AC003043, AL035447, AC006126, AL034419, AL049766, AC002549, AP000010, AC005914, AC009075, AC007011, AJ009611, AC008277, AL161627, AC018716, AJ011930, AC010463, AP000115, AC009242, AC009016, AL031984, AP001711, AL022311, AC011497, AL033529, AC005625, AP000344, AC004526, Z97183, AC008747, Z93023, AP000212, AP000134, AL135818, D86991, AL45490, AC010087, AC003982, AC007057, AL049759, AC011473, AL133500, AC006480, U95090, AL161666, AC002316, AL109984, AL136304, AC022407, AC006597, AL035669, AL022721, AL133507, AC007676, AL138836, AC007193, AC083861, AF258546, AC010206, AC005015, AL096814, AC005746, AL080249, AC011479, AC000134, AF195953, AC002350, AJ009616, AC004668, AC004832, AC005790, AC005535, AL031432, M26434, AL137067, AL137073, AC007782, AL031985, AC006132, AL031680, Z98304, AJ400877, AC005632, AC011490, AC009244, AL121585, AL079295, AL445483, AL163283, AC024561, AC008812, AP001743, Z93096, AC025593, AL022162, AP000030, AC010422, AC005513, AL031595, AC004104, AP001067, AL132653, AL009178, AL035462, AC007421, AP000356, AC008736, AL356747, AC007220, AC026704, AC004099, AC007277, AB016897, AL138759, D87002, L78833, AC016898, AC020917, AC008403, AC006468, AC006530, AP000555, AC007597, AC002470, AP001052, AL022165, AC009086, AL031281, AF067844, AL365271, AL022313, AL157838, AL034423, AC002070, AL117335, AC008745, AL355392, AL020995, AC073593, AF235098, AC005920, AL137162, AL139327, AC008265, AC004644, AC002978, AC008687, AL355386, AP001712, Z83844, AC002119, AC004659, AP001714, AC005071, AP001504, AC011442, AL008726, AL135912, AC004125, AC004596, AC002554, AC011527, AL117380, AC005099, Z82215, AL035071, AC004472, AC005839, AC009721, and AL356392.
HDPTA89	339	800344	1 - 1198	15 - 1212	BF971824, BG106735, BG167306, BG035527, BF037192, BE905217, BF973662, BF339624, AW411508, BF791771, BF568534, BF035520, BE262422, BE728235, BF338876, BG112933, AW404831, BE747455, AA447862, AA314553, BF338801, AW408501, BF223865, AA426192, BE962920, BE382927, BF195273, AI936800,

				AW139128, AI302241, AW960628, BF792336, AI492148, W90647, AA442034, AW615212, AA932579, AA411279, AA086122, BF310765, AA808008, AW404406, AA354073, BE298978, AI187207, BE297403, AI346527, AA938128, AI040261, AA393664, AI440313, H72036, AW612697, AI681334, AA808401, AW130326, AI620631, AI653329, AI147844, BE775069, AA928695, AA868693, AA782611, AI140982, AA732147, AI023036, AI332462, AI457503, AI391483, AA337765, AW402901, AI338295, BE328408, AI094177, AA716049, AA98832, AA236525, AI283828, AI077635, AA336107, AA406297, BE729591, BG179292, AW020439, BE613362, AI332478, AA425266, BF981518, AI825236, BF588487, R49564, W90622, AI536666, BF477703, BG036255, AW439303, AA257965, R76329, AA435692, AA767813, C06192, AA428346, AA478896, AA434151, AA410850, AA292512, AA257966, AI363037, AW079350, BE392860, AW998469, AA419317, BE958587, N94887, AW612258, BE257453, BG110522, AW998470, BF590761, BF763095, AR044460, U93242, and AL096805.
HSLDO85	340	801935	15 - 820 / 1 - 806	BE312753, BE880620, BE727427, BE794996, BF311864, BF038611, AW129730, BE259585, BE276712, BG178939, BF793303, BF968281, AA910935, AI870987, BE885540, BE389702, BF316569, BE314482, AA707309, BE257344, AW964530, BE276683, AW090049, BE395893, BF204261, AI569774, BG248285, BE046061, BF828154, BE385110, BE908527, BE208254, BE390965, BF036363, AW088236, AA700721, BF434108, N42222, AI188825, AI222163, AI018526, BF828510, AA425831, AI933135, BF828526, BE294105, AI095476, AA884320, BE727256, AV744200, BF828583, AA428347, BE393331, W22084, AA575839, BE019332, BF204699, AA099520, AA830859, AW007735, AI051338, W44963, F22552, AI302395, AW027217, BG057679, AA224033, AA528053, AA643710, AA588420, AA972918, AI220664, AW592051, AI208521, BE019282, AI301455, AI355465, AI869716, AA651649, N62353, AA099521, AA223969, AV741580, W65318, AW792980, AA904065, T49543, BE205941, W44428, AI207269, AA341081, AA533603, AA576820, AA339390, T49542, AA005085, AA339526, AA320308, BG115142, W65317, AV744092, W44467, AA069720, AA069679, BF798469, BF881370, AA687492, N79115, AI188822, AA339467, AA687436, AI918249, AI686174, AI185985, N93812, AI971744, AA247634, BE207653, AI423844, AA426123, AW050559, AA974812, AW263711, AF161519, AC008594, AC008594, AC040160, and AC040160.
HDQDF38	341	805499	15 - 1984 / 1 - 1970	AW205873, AA203398, BE513505, W87862, AI032039, AA778879, N98667, AW501990, AW248483, AU144352, AW505433, BE468085, W87742, AI049588, AI361617, AI128707, BE769898, AW206917, W01319, BF910489, BE715627, BF919203, R02569, BF874109, BF939052, AW135278, AA243540, AW975082, AA485181, AA658147, R45576, AA831644, C03505, BF919009, AI247530, BE715632, R63560, AA243344,

Name	SEQ ID	Clone	nt range	aa range	Accession list
					AI904031, BF514869, R63515, AI904032, BE061117, BF823087, R02688, R40166, R44207, BF906534, R44208, AI784098, BF091587, BF734769, T12049, BF380607, C03415, Z42786, BF333680, N78722, N87820, AI560595, AV695516, AA721452, AV697734, AV695724, BF771466, AV695721, BF575896, BE769909, BF903846, BE008310, BE875190, AF208848, AK023258, AK021530, and AL359593.
HULAW69	342	805628	1 - 666	15 - 680	BG114558, BF696827, R66527, H46855, AW583586, R28130, BG030159, BF571367, BF382241, BF677752, BF184956, AA420715, AV735500, R82586, AW327347, BF029990, AW161124, AV744127, BG168461, BF971167, H49687, AI878995, AV710467, BG166970, BF968107, AA522937, BG034696, BG163707, BF213193, H44205, W31692, BF030176, AA285085, BG112033, BE256879, BG031029, BF381820, BF183860, AA479559, BF683278, AL535052, BF793677, BF541112, BF132139, BG113339, AA305038, BF103812, AA428036, BF674463, AA315675, W51849, BF130738, BG028333, BE909361, BF213270, R96272, BF700007, BF664599, BF827777, AA310999, N98945, AA121183, H42256, BF665269, AA298525, BF032082, BF977978, BF339338, BE878076, BE047828, BE546966, AI767547, H51483, AI955122, AW301038, AA203752, BE879546, W79179, AV747127, AA136783, AW405858, AW130434, AW131295, AW131303, BF540976, T54405, AW081643, H50194, AI672869, AW055043, AA416837, AI422293, BF381764, AI028278, AI351044, AA296778, AI138248, BE855465, AA633512, BE788872, BG149478, AA479535, BF084344, R50013, AI281194, AA296829, AI560983, AA082396, BF887309, BF887298, BF879230, BE789337, BF218736, AI097413, BF676451, AA563931, R47812, BE936616, C02084, BF879163, AA496596, BE744389, AI056143, AA910282, BF883168, H45628, H45625, BF821422, AA477638, H49594, AA813514, AI301158, AI418360, AA516519, N44055, AA284914, BF477346, BE220255, AI912595, AA046382, AA297953, AA722082, AA705272, AA843796, BF870347, AA416688, C02981, AI348253, AI879494, AA055293, BF700730, BE826706, F25958, AI042242, AI346869, AI302881, AA402862, AW799874, BF247545, BE826711, AI298347, AA420761, AW236255, AI814753, AA862704, R82587, BF34686, T52195, AI184088, BE834154, AA719502, AI073646, BG026325, AA580072, W74425, AW438834, Z32877, AI718735, W04524, R66528, F30163, AI301336, BF792335, W52111, BF879420, AI339223, AI866642, AA873692, AI338648, H46769, AA976549, AA136667, AA992419, BF879226, T52274, AI394058, AA428813, H44206, AI264131, AA468849, H50195, H42257, AA911310, AA766455, T54328, AX014159, AW004649, AA496548, T53398, and AF161372.
HE9QK23	343	805751	1 - 1308	15 - 1322	AW897798, AL044056, W44681, AV758808, AW057713, AI445728, AI567918, BF929670, AW137633, AI362734, AI694501, AI560113, R66361, AA973346, R24468, AA256199, R24469, M78793, AA987235, R67503, BF926218, AA688372, AA398164,

					AA861041, AI024099, AA719008, AI694956, AI150346, AI217933, AA459841, BE217862, AA393248, AI652522, AA629029, AW137492, AI075905, AI796754, AF081250, AF081249, AF081249, AF195527, AF195526, U63407, and U63408.
HNTTB36	344	806145	1 - 688	15 - 702	AV723274, AU132547, AU131582, F11613, AL050070, AB011103, and AL117393.
HETJG63	345	806385	1 - 480	15 - 494	
HLDRO45	346	806430	1 - 2216	15 - 2230	BF795217, BF791941, BG261343, AI684486, BF577081, BF970851, BG105539, AI566869, AW976683, AI423440, AW502562, BF951085, AA484824, N25988, AI861827, BE075227, AW131618, BE075230, AV720260, AW009256, AI916769, AI768611, BG249121, BF062871, AA310252, BE736694, AW131634, BF476238, AW058571, AI356185, N36619, AA955004, W32196, AI096610, BE857335, AI056733, BF059109, N94810, W19887, AI870957, AA134378, AA052976, AI074330, AA284346, AA284345, AW016216, N98907, N39417, W44790, AI223291, AA960796, AA641073, AA311539, AA134377, H56248, R51171, AI682459, BF940771, AA342188, H73423, AA181868, H71237, BE888616, H38561, AA358350, AI266521, AI266523, AI350409, AA731439, T79208, H74193, AW502209, BF676239, T98365, AA358037, N69917, AI284001, N63512, AA053469, BE876332, AI798254, AW073490, BE075519, BE075526, AA384306, AA343294, R51055, H54724, AI474164, C02106, R00686, H54675, AA385699, W57848, N27559, R00580, T98364, BF889258, AA775120, W32231, W57821, AA358349, BE162798, H56054, AA371491, N40379, AA358036, H71238, AI961185, T92855, AI949375, W31970, AA322980, W31378, BE620277, T89879, AW408709, BE880622, BF826341, AA186833, AI510801, N24120, H98792, AV755072, N74027, N20201, AF086175, U25276, AC005103, AF047825, AL079342, AC005803, AL031390, AC005162, AL353706, AC007383, AL161420, AL356057, AL049745, AL049540, AL022718, AC005332, AC000379, AL160234, AC002036, AC008551, AC003690, AC008635, AC002312, AC000353, AC005844, AL109923, AL356865, Z99127, AC004228, AC005231, AC002119, AL136418, AC005011, and AC006449.
HFIDZ38	347	806756	1 - 572	15 - 586	AL449826, AL449912, AL517582, AL519910, BF027493, BE546592, AL521647, AL449825, AL449911, AL530694, AL530801, AL530267, BG115619, BE547319, BE540603, BF233066, BF576695, BE891889, BF029131, BE315514, BF063670, BE869726, AA452699, AL449721, BE961028, AL449722, BF185160, BF185952, AW365059, BG030043, AL449809, AA001396, AL449808, AL449807, AI742426, AV702492, AA361681, N24991, AA017578, BF203439, Z44280, BE737467, AA485157, AI971875, R17530, AI343524, AL449720, BF847853, BF002486, BF805438, F08051, AI681435, AW663669, AI800948, AI741119, AI808184, AI306659, BE091524, AA329679, BE781485, BF196444, BF035075, AA450060, AI929037, AI686596, AW014260, AL021578, and AF314058.
HLMDO95	348	810257	1 - 471	15 - 485	BE958211, BF667988, BF899665, AF282693, and AR083245.

HSLGA19	349	810406	1 - 1101	15 - 1115	
HGBGM53	350	810461	1 - 343	15 - 357	AL520760, BF980926, AA985175, AA357674, BF686128, and BE264273.
HIBCO73	351	810586	1 - 1474	15 - 1488	BG030674, AW954566, BE738693, BE548295, AI635570, BE738125, BE538273, AW303853, BE349507, AA703001, BF871188, AI860461, AI818619, AW628835, AI564058, BG258506, AI248704, T33302, BF930586, AW002906, AA350185, AI244512, AA424468, AA424391, BE707526, T84027, R48915, T76986, AI870687, AI955448, BF002927, AW572041, T77152, AI910493, AW204382, AW136998, BE274025, AI022309, BF760830, Z45871, BE893241, AI918983, R48803, T84026, T80818, AA165465, AA654353, AW195393, AW339291, AA299342, AA165365, Z41503, AI702665, AW961229, T81218, AC005585, and AC004997.
HDPOM13	352	810899	1 - 767	15 - 781	
HMEJR75	353	811268	1 - 657	15 - 671	AA459837, AW953466, AW957134, T09073, BE734978, AW838037, AW608110, Z42773, AF053369, AX003081, AX003083, AB022317, AB021292, AC006543, AC006544, AC007387, AX003085, AB002563, AB047604, AC003061, and AB022315.
HOECE93	354	812221	1 - 563	15 - 577	AL532827, W46511, W22983, AI521138, BE273852, W28334, AA035478, F12221, T66348, AA035451, AW861403, AC005697, and AC004852.
HLHGA65	355	812445	1 - 437	15 - 451	AA463818, and AF015416.
HMABF89	356	812465	1 - 859	15 - 873	BG026050, AI761387, AV658658, AA349453, BE003517, AV657118, AI498310, BE905842, AI288807, AA377721, AA377394, AV657075, AI702320, AI801728, and AA380573.
HLKDC74	357	812760	1 - 1272	15 - 1286	AI923712, AW300857, BE244247, BE047368, AI499936, AW084829, AW591899, AI214481, AF241229, AF117297, AF125304, AL390719, and AL390719.
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HETIZ34	359	815417	1 - 2780	15 - 2794	AU131998, AU124333, AU124752, AU126247, AU133773, AU138965, AU118720, AU124348, AU120256, AU135144, BG120186, AU127635, BE619571, BF034166, BE891010, BG030699, BE738402, AU134389, AV731084, BG109466, BG027171, BF792629, BG171545, AL042815, BE884436, BF212326, BE618965, BG250347, BF977717, AV720645, AV720730, BF981731, BF574770, AI693916, BF791227, AA778662, BG118288, BF692465, BG121644, AU133346, AW967353, BF923740, BF102649, AV752464, AW995083, AW190223, AI979116, BE567006, AU145217, BE737789, BF184355, AI625215, BF852400, AU149058, AU148549, BF031650, AW994925, BF242272, AU149474, AU154977, AW994913, BE301769, AI126560, AW994920, BF677776, AW937894, AI683404, AI811671, BF668908, BE618038, AW771384, AW080047, BF248484, AI831215, AI685351, AU153628, BE866317, AI814722, AI333666, AW835406, AA975513, AU155395, AI679295,

HWLIX39	360	815669	1 - 1452	15 - 1466	

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HSVCA10	362	824800	1 – 442	15 – 456	AW966079, AW955776, AC007790, AL121578, U66059, U95740, and AC018766.
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HPRBB67	369	828597	1 - 1122	15 - 1136	AL523998, AL522445, AI761326, AI627648, AI096890, AI768749, AI123834, AI769580, AI638060, AI739489, AI972257, AI343435, AI521931, BE045560, BF940125, BG027411, AI765701, AW005873, AI739488, BE883089, BF939906, AA454046, AW129201, AI028080, AA644536, AI337727, AW024980, AA995710, AW772124, W27549, AL522446, AI334385, AW470826, AI670706, W35337, W07281, AW016392, AA235295, AA722700, AW057627, AI203362, AI150551, N79783, AA890228, BF382814, AI017376, AA453627, AI699917, BF195805, AI971711, AI765536, AW418989, AL523999, AI823532, AI766066, W35330, BE264207, AI088874, R41797, F34970, BE296611, W23730, AA306279, AI864330, AA322761, AA371150, H61049, AI382538, AA298233, AA706686, N58312, AA935231, BE048605, W23738, AI768001, N87864, BE876341, BG031815, BE826157, AW950440, AF272036, AL137502, AL138717, AL122049, and AL162062.
HPIBM51	370	828682	1 - 651	15 - 665	AV712703.
HLYFY81	371	828777	1 - 970	15 - 984	BF668112, BF308870, AI139901, BF448659, AA743934, AI817040, AA605076, AA746310, BF102826, AW152501, AI679319, AA976688, AI369815, BE772389, AI858221, AI580110, AI948429, AA454940, AII86062, H98729, AI086150, AI361419, AI362263, BF333747, BF694216, AA662751, AI041625, N24299, AI361545, R91402, AI354298, AW628473, W20421, AA639539, AI344442, T86451, AA953728, AI027564, BF665861, H43805, AA714010, AW797389, W19089, AA888099, R87627, AA181709, R92659, R87531, BG024024, AW797367, BF904180, BF038804, AI567637, AI669639, AW999906, AI537516, BE964497, AI801536, BE566196, BE965481, BE909521, BF876588, AI918634, BF925370, AI364220, AW078767, BE091470, BF816041, BF913615, AW083804, AI679916, AI951222, BF816031, BE393551, BF817746, BF811808, AI050666, BE780932, AI285417, BF753056, N74355, AI632981, BE905628, AI613017, AI608802, AW834325, BF913569, AI952542, AW118508, BF924884, BE068047, AI469516, BE884910, AL513891, AI611743, AI919345, AW172787, BF814429, AI677797, AI701948, BE964767, BF814541, AW148738, AI696626, AW130309, AL513999, BE890955, AW024425, AI379711, AI266558, AI560806, AI699154, AI418128, AI926041, AA746507, AW073898, AI805688, BE965169, AI636719, AL513685, AA830821, AI366549, BF915316, BF904248, BE964198, AI926593, BE613727, AI683939, AI589993, AI805638, AI636788,

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HHEUU25	373	828922	1 - 2424	15 - 2438	AU130475, AU124575, BE745541, AU137992, BE271687, BG170855, BF057048, BE501252, AI363286, BG163691, AW474958, BG257800, AW439246, BE884153, AI950988, AW594051, AL049112, AW593497, AI655350, AI868802, AI935191, AA002041, AU145883, AW969212, BE349185, AA625272, BE295009, AA564814, AI334349, AA521508, AA831678, AU152068, AI093447, AI221823, AI683495, AI632423, W78082, AI830624, BE858360, AI277244, AA604562, AA948458, AA922990, AW242129, AA373428, T27532, T27533, AL047928, BE468131, BE393563, AW470944, BF933661, AI018432, AA324284, BE771870, AL079583, BF526589, BF793899, AA001835, AW196142, AU120404, AL041249, BE720563, BF686523, AI264786, R14071, AA167058, BE939957, X85660, R40196, AA331947, AW235837, N88270, AA897167, AU125401, AA902298, BE773191, BE706523, X85661, AI907546, AU119575, and AB007885.
HNTBH70	374	828926	1 - 570	15 - 584	BE781119, AA165340, BF674424, AV728265, BF029102, AA021328, AA370261, and BF811117.
HMIAN37	375	828988	1 - 2724	15 - 2738	AL525140, AW994403, BF340540, BF690628, AL525139, BE784612, BG026204, AV721455, BF794837, AV650386, BF970767, BF035901, AI796091, AW070331,

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| | | | | 15 - 1111 | BF206962, BF305074, BF305149, BF439108, AI268268, BE395507, BE385088, AI819416, BF055525, AA947965, BE467664, BE857149, AI688717, AW027310, BF589303, AI336199, BG179674, AW967435, AI672288, BG150003, AI828977, AI421864, BE541981, AA402255, AA456227, AI183357, AI279126, N30912, AI570596, BF002580, AI817223, AI871749, AA534311, AI161234, AI347720, AI672691, AI814234, AI693829, AI459084, BE296960, AA411630, AA236940, AA237089, AI217696, AI758234, AI928989, AA454620, AW268877, AW051826, AA830345, AI168163, W15416, AW014577, AA886902, AA570688, AA906799, AI332391, AW470301, AA436137, AA402751, AI311662, AI276098, AI275571, AI800622, AI082789, AW025981, BF439499, AI094730, AA969974, AA828389, AI991821, BF149343, AA830779, AI206074, AI929238, AI091493, AI268847, AA436029, AI094024, AI693502, AI042392, AI242442, BE152615, AA443110, AI493464, AI000713, AI079484, AA456175, AI924771, AA189004, AV653110, AW575883, W02975, AW013901, AI209029, T54423, AI800570, AA714094, AI167951, AA975695, AA962315, AI269894, AA649829, AW404973, AI095104, N72262, BF740208, AI802488, AW272090, AA455645, AA910903, BE702650, AA189003, AW028777, AA742883, N51630, W39654, |

					Accessions
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HIBCN93	377	829308	1 - 1492	15 - 1506	BE786830, AI056401, AW072652, AI885072, AW205916, AW957347, AI885524, AI879122, AW793024, BF681368, N34233, AI953626, AI768363, AI500165, AI887770, AI651798, AV750205, AA393235, N35730, AW297174, AW628476, AI802927, AW271854, BE672711, R56346, AA249118, AI377463, AW070857, AV700598, AI824909, N53527, AA948310, AI206861, AA572277, AA570002, AA814424, N25635, AA255602, AI478500, N25539, AA634056, H07018, N28490, AA416965, N34136, N34013, AA902860, AA255576, AV750693, AW029208, AI690664, AI198003, H99526, H05467, N49189, AI190195, AI864484, N30121, H99763, AV687634, AI024777, AA379362, AA262183, AV686523, AI191172, R86778, AA721016, AA350164, R13979, AW902474, AI963889, AA339761, R17378, N49183, AA262707, T33288, R42616, T16329, H99527, AI423712, AI952318, D62700, AI267479, N92737, W20356, AA385524, T28424, AA370138, AA279758, N24571, R40039, BE070054, AI351820, BF476976, BF477325, AI674497, AA864521, T35226, D57142, BF928214, R56257, N50244, AI124956, AF143235, AF320912, and AK000896.
HCUDM68	378	829463	1 - 443	15 - 457	BE396321, BF036529, BF851200, AW965880, BF931017, AA358982, BE561336, BE765106, AL537427, N30547, BE392587, AW853469, AA366279, AW578472, H70995, AW866718, AU133489, H78449, AW366011, BE831795, AV728926, H57449, R32605, T11530, AW866749, AW373812, N39398, R64443, H13461, AW866719, BE765113, AA133688, BF838804, BF891569, BG035180, BE765075, AW866704, BF830002, AW860565, BF737126, AB007934, AB029290, AF141968, AF150755, AK023285, AK023821, and AK023406.
HCFCU33	379	829601	1 - 908	15 - 922	BG028710, BG035531, BG110379, BF035651, AA523735, AA744680, BE394436, AA496102, AI889460, AA884239, AI423208, W52780, AI023220, BE812187, AA232187, AW958033, AW249982, BE812189, BF477516, N49855, BE617457, AV705633, AI377213, AI440471, AA830850, AW967880, AI470085, AW246245, AA806441, AA741266, AA130096, AI273697, AI199436, BF975380, AI028484, AI144114, AI524208, AI261472, AI215922, BE962421, AI281030, AA809356, AI735186, AA588859, BE645876, AA398075, BF431780, AA668868, AA922498, AA826865, AI721076, F26431, AI224934, H69575, AI984011, AA130095, AI963211, AA243109, AA988255, H95065, AW675353, AI378424, AW977897, F28374, AI936240, AA744793, AA809458, AA827659, H62017, AI493433, AA809442, AI266572, H85385, AA835915, BE617905, H41598, AI371682, AA393987, N36218, AA602990, AW474121, AA872643, BF512094, BF678739, BE840806, AA551426, AA368844, BF750755, BE267207, AA877236,

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			1 - 832	15 - 846
HFIIS05	381	830029		AL520059, BE616627, BE254037, AL528245, BE870744, BE615905, BE781788, BF976294, AL520058, BE782297, BG179702, BE779264, BE897551, BE795389, BE782861, BF204952, BE540475, BG255597, BE885901, BE378101, BG253174, BE615515, AA496201, BE545744, BE617023, AL528244, BE778886, BF697548, BE902405, BF312418, BE542629, BE794107, BF700073, BG254355, BE798090, AI859147, AA496363, AI813431, BF664822, BE869749, BF678149, AW405749, BG025875, AA313838, BE789297, AW578440, AA084467, BF874874, BF311562, AA303551, H02336, AA496637, BE535529, H02444, BE315291, W25124, BF874434, AW886708, N45390, N98369, AW800184, R23517, BE905837, AA282280, AA224128,

AA355494, AW952215, H84706, AA321128, AI978644, BF832795, D81961, AA320921, AW515602, AI857474, BE910505, AI199193, AA878116, BE617548, AA631639, AW769252, BF059046, BE856235, AW379866, AA496204, AI346587, N70173, AW513489, AA704287, AI016217, AI083701, AI814087, AI282646, BG164558, AI434134, AI811785, N93284, AW075484, AI700159, AW080279, AI352326, AI698401, AI573167, AW102902, AI963224, AI826225, AI648436, AA805519, BF792678, AW168296, AI445115, AL042382, AI564765, AI690813, AL079794, AI813868, BF525578, AI758309, AI610667, AL119457, AI800453, AI620866, AW081606, AL119399, AI922075, AW004886, AI961589, AL513663, AW196299, AL119511, AI812015, AW081449, AI521594, BG254284, AI919593, AW162194, AI273901, AI628015, AI817122, BG110384, BG028873, AW194185, AI866770, AI830259, AI922812, AW161156, AI869377, AI683099, AI811353, AI580674, AI354283, AI335426, AI348777, AI800433, AW087838, AI470648, AI954422, AI916419, AW148716, AI280747, AI630876, AI280661, BG163618, BG105794, AI537617, AI933992, BF968903, AI866820, AI972155, AI570966, AL040694, AI677797, AI926333, AI470293, AI540759, AA911767, AI824576, AL036673, AW827206, AW168503, BE734780, BE891834, BG029829, BE885353, AW150762, BF970990, BG008888, AA999906, AI783821, AV692345, AI540754, AW022682, BF752858, AI363957, AI452556, AI633314, AV734592, AW080079, AI373914, N29277, BF680133, AW168849, AI961393, AW150326, AW130307, AI868204, AI624548, AW410090, AW631265, AL036980, AI634305, AA903106, BE783541, AW090387, AI571699, AI590624, AI950688, AW105601, AW169604, AI648508, AI567612, AI679550, AI554821, AI866082, AI932458, BF814761, BF764538, AI263331, AI918435, AA287231, AW169671, AI680498, AI589267, AI245008, AI567866, AI612885, AI439717, AI540458, AW075645, BE907151, BE048026, AI648458, AI251221, AI247193, AI679800, AI829327, AI554245, BF814357, AV696257, AI635038, AK024843, AF110764, Y11587, AL442082, AF130075, AF205861, S36676, AK026164, I48978, U77594, AL137294, AL122098, AL133016, A08916, X62580, AF242525, AL050277, A52563, AK025465, AF218034, AL389935, A08910, I89947, A08909, AB047941, AR079032, AF260566, AJ006417, AF116639, A08908, AF260436, AK024538, A08912, Z97214, AL080124, AF159615, AL137558, AF116631, AL110222, AR068751, A08912, AF218031, AL137550, AK025798, AL110221, AF177401, AL137521, X98834, AF113019, AF116646, AF314091, AL162002, AK000418, I89931, AB048964, AF065135, AL137560, E02349, AK025209, AL110225, S68736, A93016, AL122110, AR087170, AF067728, AX042059, AK025391, AF111851, AK027146, AJ003118, AL080126, AR038854, AL122049, AL137459, AF119860, AL389957, AF017152, AL080140, AK024524, AB050410, AL049314, U68387, X72889, AB047248,

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HWLFQ55	383	830262	1 - 701	15 - 715	BE867525, AW139432, C75094, AW749328, AP000502, and AF134726.
HWLBK80	384	830339	1 - 535	15 - 549	BE314989, BE903612, BE901232, BF507996, D42047, and U97256.
HWHQR45	385	830348	1 - 981	15 - 995	BE155717, AW383157, AA295728, AW082090, AI469075, AW612887, BE222471, AA809879, AW205375, AW204671, AI440266, and AA983601.
HTTDO45	386	830542	1 - 2018	15 - 2032	AL517117, AL534518, AU125294, AU143452, AU118572, AL517116, BE792113, AU121192, BE793962, AI356346, AA773564, BF435179, BE886334, BE795064, AW149620, BE383734, AI608941, BE748762, BE622370, BF203966, BE790688, AV696007, AI934471, BE733419, BF435252, BE219495, BE791170, AU141523, BG248252, AW166202, BG169497, BF980852, AV653212, BE797475, BG180336, BE295362, BF205555, BE790686, AW248975, AI927017, AI927649, BE892350, BE258769, BE748454, AV653246, BE386198, BF733017, BE277200, AI935538, AI689743, AW237367, BE267474, BF681633, BE386284, AA669837, AV684061, BE265906, BE326704, BE264857, BF315665, AW966083, BE728981, BE270256,

HRGDD63	387	830829	1 - 485	15 - 499	AW977866, AU139664, BE264431, AA773811, BE313692, AI826904, BF732388, BE208638, AA522692, BE463425, BE465120, AI985556, BF306548, BE295650, AA160675, AI766899, AV689563, AW615658, AA129593, AU148980, AI242161, AI339338, AI915875, AI281977, AI679419, AU159062, AA743161, BE394851, AW129250, BF313256, AU160539, BE222517, AU147054, AI292110, AU145096, BE622820, AW473145, BE551066, AA995857, AI632625, BF434612, AW005265, BF732958, BF195296, AW205957, AA031697, AW511387, BF305552, AI080003, AI985496, BG236394, AI640340, AI075293, D58067, BF724595, AI753324, D58068, AA100913, BE967287, AI679929, AI681080, BF739968, AA186698, BF206378, T60268, AA834774, W42513, AI796037, AW337148, AW772479, BE326667, AA480672, BF593137, AV689500, AA058529, AI637787, AW243240, AI659936, BF211944, AA812035, AA173985, AI332985, AA995455, BE265298, AA031863, AI640567, AA173629, AV687020, BE266329, F22148, AV688387, AA188326, H29767, AI650925, AW248532, BF674020, AA974029, BE048931, F30242, AA128581, AA129330, AI524808, W61060, AI695223, T88743, AI340251, BF432185, AI962198, AI347479, AW072302, BE221712, BF444947, BE395440, AA934427, H08029, AW193412, BE939886, BE702513, AI681438, BF434502, AV697589, AI373314, H29768, AW270842, AV696822, AI085778, AI480195, AI885635, AW134585, BE939895, AW024782, AI352226, AA366465, AI272109, T68371, AA160087, AA317205, AW772225, AA962214, AW052130, W42415, AI765977, AA923685, AA330736, AW025204, AA352143, AA781222, R00503, W72566, AI310696, AA352395, AA384254, BF434518, H38826, H02114, AA303841, H07926, F36818, AW025212, AI392859, AW269249, AA872783, AA011079, R57464, BF196432, W76560, BF083008, AA878505, AI640318, AA100912, AI333009, AF006747, R40908, AW403749, AI821667, AA470517, BE675131, AW991591, AA576938, BG149272, AA587251, AW341091, RI3392, AW838580, AW802577, AA877207, AI589503, D16294, AL133074, AX030435, AC005520, E12888, D44497, AP001346, T61648, H93354, AA011078, AA129619, and N88876.
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HTNBX62	388	830831	1 - 1502	15 - 1516	BG169002, AW960796, BE889728, AW188129, AW575807, BF243751, AI912381, AA583054, AA897558, AI590077, AI684598, BF244182, AW129776, AA883062, BF028098, AW958634, W74494, BF210753, AW958635, BE857179, BF111867, BF002282, AI818246, AW958633, AW958638, BF510537, AA195310, AI830442,

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HLICA76	389	831204	1 - 2113	15 - 2127	AI359584, W63626, AI916569, BE677241, AW023281, BF732768, BF241853, AA772553, AI217502, AA262968, BF572268, AW674515, AI675033, AI609871, AI371911, AI683812, W79091, AV723017, AI825716, D60020, BF593859, C14696, BE328520, BE467332, AA287921, AI536775, AI088117, AI472912, AA382550, AI375566, AA999820, BE940000, AI828456, AA195194, BF690709, AA972898, C01521, BF941885, BF666762, AA853909, BF694026, AI363877, BE000571, BF593399, BE856804, AW175933, BF668025, AA974815, BF570723, AA337705, BF668860, AA385865, AA382549, AI564274, AA287981, BF216597, BF669879, BE567286, N22320, AI683277, AI199426, AI150537, AI692319, AW861096, AI868735, AW578809, AI680550, AA367467, D79383, R33482, AW337613, AA236312, AI287461, AW856565, AA385900, BF246635, AL048650, BE622721, AW856569, AW856564, AW856570, R34020, AA992535, D81405, BE765787, BF334516, BE766216, BE766046, BF244955, BE766226, BE766300, BE827840, AV652827, AW366818, and BF131969.
HAPOA59	390	831307	1 - 2361	15 - 2375	AL048469, AV652550, AA194999, AW970524, BF184884, AW140072, AW204730, BF433166, AA215680, BE046998, AI631865, AW593881, AI655646, AI971076, AI432147, BF475864, BG121355, BE467238, AI631673, BF475272, AW149689, AI669703, AI829789, AI492434, BF213057, AI521142, BE551662, BE813686, AW614108, BE930767, AI400478, BF433312, AA288026, AW614587, BE502950, AI651180, AI193145, AI081573, AI342508, N28686, AI278064, AI126161, BF954317, BE502323, AW129475, BF960086, N21283, AI341841, AA255856, AI674128, AI399915, BE090810, W96079, T27087, AA215681, AA279589, AA256423, BF959098, BF962893, AI985255, N75153, AA860951, AI797704, AA182828, BF185677, H15282, BF841001, BF593114, AI225122, W96080, AA227601, AI239883, AW770467, R85595, AA234343, AA227901, N31219, BF435948, AW192261, AA991931, AW083386, BF030377, AA165273, AA182803, AW129480, AI978564, AI282883, H15283, AA256535, AI309945, BE045834, AA194812, AA234430, Z43797, AA552024, R36319, AA165272, AW175957, AA935846, Z39864, N58817, T27086, F03103, AL048468, R11785, R05490, R49251, Z42889, F02354, AA971119, R05597, BF979218, Z43853, BF836495, AW138352, R20079, AI521685, AA508821, AA506888, BF241824, AA318705, AA283940, AI470509, R41213, R14552, T23687, BF030442, AI267407, AA375965, AI969367, AW852333, BF154650, AW891762, BF826364, BF154653, T18561, AA593122, AW376339, BF953983, R37704, BF090151, AI311382, AV720579, BF826761, BF960414, BF960841, BF090097, BF962097, BF958637, BF090124, AV750326, AJ131245, and U66835. BE731629, AU122259, BE253744, BE735052, BE561083, AU117498, BE731156, BE730447, BE745756, BF965935, BE734241, BG027641, BE890764, BF205848, BE734303, BE561409, BF304835, BF206135, BE543446, AI828094, BE896184, BE896040, AU126506, BF204019, AA314161, AA444370, BE867090, AI986034,

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HLMMX3 7	391	831314	1 - 853	15 - 867	BE221808, AW024347, AW083151, BE464444, AW969602, AI762204, W68684, AI817645, AW612524, AI492111, AA642933, AW772421, AA759191, AA113168, AI739413, AI829451, AI700345, AA399648, H12309, AI432082, H12362, AW137435, AI263207, AI953989, AI263215, AA397734, AA513369, BE906442, and AL049851.
HWLHW6 4	392	831475	1 - 1487	15 - 1501	AI346913, AI738438, AI982979, AI738632, AW965221, AW339063, AI763162, AW593034, AA877557, AI460305, AW192747, BE394354, AW593059, AW572528, AA573810, BF061428, AI432211, BE563844, AW192586, AW338621, AA576730, AW731768, AW631491, BE818471, AW973529, BF529567, AI659952, AI917641, BE818521, AI659962, BE818560, AI982681, AI634256, AA535871, AA618562, AI796661, AA502765, AA085144, AI281079, AW275145, AI432985, AI802757, AI366825, BE818501, AA652901, BE818551, BF475450, AA903524, BF222156, AI034060, C75463, AA405715, AA085096, AW965229, R48347, BF445578, AA907131, AA065003, R48348, R76010, AW389827, AA345978, C75530, AW768812, BE818555, AA405780, AA514519, AA974946, AA069277, Z41149, AI829857, AA151202, Z45442, F08881, F11218, R48251, AI349012, AI669864, BG261383, AI698391, AI401697, BF754990, N29277, BE787720, AW020397, AI670895, BF055899, AI499325, AI318603, BF054877, AW303152, BG030372, AL118781, BG110599, AI539260, AI345778, BG120442, BE881363, AI621341, BE393784, AI619820, AI638644, AW089351, AA749425, AA928539, AI699823, AI741158, AW827289, AI590043, AW051088, AI540674, AA808175, AI491775, AI473536, AI536685, AL036705, AW188525, AV650703, AW268293, F36874, AI250627, AI814594, AI434731, AV734923, BF753056, BE965208, AA587120, AI354998, AL079799, BE011880, BG034146, AV745810, AI921087, AI923989, BE964454, AI370623, AI440238, AI147877, AI956004, AI927233, AW078839, AW073824, AI589428, AI799179, BE818561, BF892007, AI582529,

| HHERA41 | 393 | 831577 | 1 - 1034 | 15 - 1048 | AV681924, AL121365, BG180273, AI276014, AI590020, AI686565, AW188840, AI863002, AW089275, AI620864, AI422688, BG026483, T69241, W45039, AW148423, AI244343, AI633125, AL041996, AI538564, AI91591, AI635634, AW152182, N25033, BF527697, AL036780, BF877648, AI582932, AI570056, AF159228, AF131809, AL136531, AK022318, AL389935, AK027096, A76335, AK025239, AK026462, AR034821, AL137480, AX046753, AK025356, M79462, I48978, AK026590, AK026649, AF054289, AF254119, AL080074, AL137557, AF232009, AL390184, AF172400, I89947, AK025435, AB040710, AF130099, U62807, AF177401, AL442082, AK025391, AK000257, AK000414, AL049452, AL137550, AL133559, AF065135, AK026959, AK027103, AL137554, AL390139, AF026124, A91160, AF199027, AL133049, A91162, AR038854, A08456, A31057, AF111851, AL137533, AL137479, S61953, AK024588, AK027082, AF200464, AK025857, A08907, AL133637, A08913, Z97214, AL133623, AK026506, AK026613, A20553, AL157464, A08912, I32738, AL137555, U35846, A08911, X81464, AB016226, AK026894, AK025209, AF116654, AL080139, S82852, S77771, AL110225, U92992, AF116691, AK026528, E03671, A77033, A77035, AF132676, AK025860, AF061836, AF079763, AF111849, AF185614, D00174, AK024747, I09499, AL110224, S76508, AC006112, AK025889, Y16645, AK027121, I33392, AK027173, AK027164, AF114784, A58545, AL359623, AL136842, E02221, AB030279, AI005690, U75370, AL157480, AL390154, Z13966, A49139, AK026927, X99971, AL110269, AF077051, AK024524, AF119899, AB048881, AK025084, AB048954, AF116644, AF130082, AL137294, A08910, AL355701, AF179633, AL050170, A08909, AX046716, AB047941, AL117416, AK026762, A93350, AL110221, AF124728, AF060555, AX010492, AL050155, A08908, AF145233, X66871, AL117587, AJ299431, AK000137, E12580, AL110296, AK026741, AL355719, AF047716, AR085693, I18358, AK025708, AF079765, AL389982, AL080118, AF113694, AK024533, AF130055, AF087943, AF089818, AL442083, AK026844, AK025119, AB048975, AF169410, AL080156, X93328, A03736, AF019298, AL441883, E12747, AL133560, AL137627, AK024992, AF116609, M85164, E01314, AK024944, AL110158, AL117457, AX040958, AL023657, AF202636, AF130110, AR068466, AF227198, U88966, A48221, AF107018, Y14314, Z35309, AF026816, A18777, I89931, AL122110, AK026542, AF031903, AK026870, AF217989, AK026057, AL050277, AR029490, AL137258, AF217973, AK000418, AK027142, AK026038, AL050092, AL137530, AL157433, AL137267, A48220, I08319, X53777, AK026857, I89934, I89944, I00734, AL137537, AR087170, AR094308, AK027081, AK026504, X00474, and S36676. AW969499, AI972460, AI341541, AW117403, AA503530, AI801928, BF437835, AA652990, BE223037, AI023577, AA493335, AI301379, AW242107, AW205773, H47985, AA399603, AV648259, AV648284, AA397807, AV648519, AA151955, R85968, |

Name					
HFXJT43	394	831638	1 - 955	15 - 969	AA463729, AA465518, R42109, AW972376, N40083, BF903023, AI032195, C21006, BF885212, BE546224, BG259386, and AA948774.
HE8CL14	395	831872	1 - 2553	15 - 2567	AL120900, BF347826, AA235268, AI123315, BE090603, BF904457, BF347684, AL048805, AB002303, and AC018764. BG260876, BF793455, AV723596, AV706288, BE218018, AA193348, AW006940, AW970408, BE670613, AA287444, AI697530, AV724515, AA778715, AI912652, BG057678, AI337845, AI031941, AW028146, AI219839, AI239899, AW149133, AW296657, AA868439, BF511087, AI130017, AI761475, AA689396, BE645076, AA748665, AA535607, AA687414, R15368, AI039529, W78107, R84945, R97223, W79932, AA809715, AW195631, AA630124, AA164390, AI276374, H12382, AI381532, R36669, H12331, R97224, AW027809, R36227, AA382264, AI351706, R36228, H47986, BF445571, AW297460, BE835849, BF926881, AA193466, R39751, R58394, AA149874, and AF18925l.
HLWFJ59	396	832119	1 - 1254	15 - 1268	AV708798, BG118622, BF971584, BF342096, AV708329, R18293, AA463262, AA463615, AW160405, BF726027, AW207311, AW606708, BE465419, BE566680, AW993446, AW407583, T81621, R01539, and AK024966.
HAJCQ05	397	832451	1 - 949	15 - 963	AL528286, AL532614, AL520144, AL522268, AL524039, AI675158, AI583939, BF316514, AW731886, AI871134, BE304483, AW084129, BE262765, BF448560, AA846540, AA036794, AW519299, AI500206, AW007351, R82234, AW001278, BF568964, AW878040, R60553, AA477048, AA476936, AA595354, AA757328, AW997324, BF568205, AA371948, AA036769, AW273842, H61179, BE379439, BF034979, AL528287, AL532439, AI700260, H91896, AL526465, AI337139, AW770188, AA036762, T11235, AL530848, AI735154, AI056619, AL520145, AW073008, AA373830, T10652, AA961999, H92351, AL525381, BE901312, BF311342, and BE800002.
HAGHC54	398	832485	1 - 819	15 - 833	BF184463, BF242917, H81182, BF831861, BG150237, BE889832, H91282, R66741, H53265, H53264, AA526672, H53769, R63025, H54405, AW516781, R71007, H54489, AA436320, AW861314, AW372386, AW372389, AW372388, AW372392, AW372390, BF762490, AV724984, H53822, AW955465, H81181, AW384098, BF507383, AA305047, BE673529, AW301702, BF961763, AA468784, AK026843, AL023583, AC005777, AL034582, AL020990, AC005954, AC002508, AC005245, AL365214, AL035693, AC005018, AC010082, AC003046, AL031284, AF013593, AP002022, AC005859, AD000813, and AC005089.
HULAY53	399	832587	1 - 700	15 - 714	AW954167, AV717830, BF248287, BF698595, BF692401, BF207735, BF666588, AU131933, BF212100, BF571655, AU126660, BF700418, BF701066, BF670597, BE892318, AA313892, AA173369, BF691437, BF983929, AV703253, BG260422, BE118017, BG179172, BG035796, BF797413, BF977552,

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HE9DL48	400	832624	1 - 457	15 - 471	BE748153, BE748567, BG163833, BG025219, AA479643, BE564006, AW583013, BE379103, BG121908, BE312121, BF673665, BF210095, AA308103, BF238492, BF978206, BG026795, H47080, AA477100, BE250803, BE566005, AA401012, BE790765, BF240110, BE887513, AA401099, BE561090, BF317140, BE783114, BE467660, BE788596, R98575, AA088505, BF690869, BG031640, BE742316, BE746047, BF692604, BG025804, BE383477, BF693815, BE728672, BF210316, BF983856, W00676, BE736890, BE815258, BE963323, BE007588, BF209922, H70695, BE563285, BE250230, BF239218, BF238963, BF692228, BG032907, AA287074, BE743393, BF132281, BF211889, AA421366, AV747697, W42983, BF591604, H23877, BE618571, BE566863, BE905026, BF977787, AA322157, H82450, H78773, BE277528, AA158600, R80833, AA721698, AA526825, N27821, BE467037, BE868395, BG035545, AA149110, AA035404, AL523940, BE262151, BE882471, AA158621, W02947, BE906295, AW064022, BF899392, N73359, AW961128, AA187062, AA130211, R98296, N93427, C03853, N88492, AA340920, AW883486, AA513784, H65548, BF130880, BE818498, H91239, AI565802, AA541790, AII88269, AI338742, AA380545, AI041177, AI857704, AI421860, N42658, AI608962, AA133994, AW067700, AW081990, D20716, AA857480, AW778961, AA345017, AII89800, AI979046, BF669840, BG057256, AA340603, W04169, BF218938, N92521, AA121112, AV709866, BF572628, AA100939, BE007654, W38968, AI735040, BE925972, AW072841, AW131162, R11548, AA555043, BF382596, N35914, AA149111, N87271, AA847298, AA010121, AI038076, AI333478, R11537, AI336156, AII60310, AI494501, AV746870, AI672758, AI369296, AV728699, N83545, AI333476, AII26897, AI749360, AA341429, R92244, AA669504, AA089586, N43981, AI088643, AI718389, BG026981, AA703207, F36640, F20628, AA694227, AA502645, N86420, N26049, BE299069, AW273893, AA088451, W21469, N34652, F26081, AA064910, AA860645, AA694117, AA284531, AI420366, BE833135, AA448241, AI469668, AII89806, AI636826, AI033719, BE250749, F20597, AA477331, AA575937, AW511922, N53859, N31599, F36132, H98101, AII86260, N47052, AA112059, AI193952, N32788, BF814890, AA065188, N86264, AI340972, AA576225, AI034254, AA916347, BE262363, BF733136, AA654495, U09813, AL139095, and U51167.
HFKEH50	401	833067	1 - 1663	15 - 1677	BG257927, AW590657, BE879400, AI768979, BF795563, AA314374, BE242597, BF761254, BF761247, AL526855, AW961210, AW939345, AA580098, BE731068, AA313261, AW961206, AA233499, BE276849, AW594006, BE242254, AW408727, AI751632, AA300475, BE387790, and AK000294. AL515814, AL515776, AL515777, AL515815, AL515649, AL515815, AL534165, AL525747, AL534166, BF313091, AL520606, BF342613, AI064806, BF344711, BE742923, BE797091, BE898647, BE856301, BE263819, BF528629, BE737142, BF685049, AII40344, BF063934, BF244655, AI763061, AW340290, BF683133,

| HUSXK49 | 402 | 834541 | 1 - 2106 | 15 - 2120 | AI659614, BE795356, BF036962, BE929854, BF310103, AV752738, BF034915, BE798202, BE904852, AW193974, AI554886, BF316436, AI086027, AA410368, AI937139, BE274089, AI218197, AA918821, BE312226, BF314999, AV645326, AI336469, AA829965, AW207732, AW473975, AA577435, AW402756, AW070946, AV723824, AI610462, AA722774, AI903581, AI880283, T90764, H22929, BE540568, AI623603, AA404313, R54057, BE260879, AA404713, AA912779, AW168607, AA079100, BF092248, AA609213, AA406191, BE673415, BE350786, AW952354, AA923714, R54056, AA325220, H24109, H70703, AW750290, W81523, AA330197, AA293154, AW590611, BF880685, BF837510, AI218895, AI198020, BG258381, H08723, BG002684, AA649195, AI672973, H08439, AA927962, AI873660, BF086702, T09449, AA774521, BE044401, AW794716, BF767735, AI902460, AI383372, AI204653, AI361791, Z39695, BF245003, AI187740, AA079003, AI903535, AI867628, BF847373, BF854730, AI689520, AW297870, BF965605, BF678079, BE535674, F02166, BE547512, BF847264, BF804160, BF115405, AA477404, F04433, BF541812, T83213, BF767508, AW797192, Z42682, AA335484, BF733974, AA430434, BF804096, AA479566, R16340, BF847254, Z19095, R41416, Z45578, W81639, BF833057, AA971991, AA453110, AI902445, R87881, BF917644, AI564885, AI811209, AW083638, AI568538, AI568516, AW376204, AI755186, AI523835, BE766985, BG165048, AI627893, AW008226, AI440284, AI954721, AI364589, AI934011, AI688858, AI539800, AA659690, AI540179, AW129264, AI932739, AI829432, AI270448, AI719817, AI873604, AI141406, AI885982, AW081383, AI824746, AI269469, AI274655, AI287252, AI678446, AI866893, AI890183, AI689157, AI802244, AI476478, AI266652, AI799968, AI628325, AK000833, AF226048, AJ289857, AL110160, AJ297977, AJ289848, AJ289856, AJ289847, AJ289849, AJ289842, AJ289846, AJ289851, AJ289852, AJ289844, AJ289844, AJ289855, AJ289854, AJ289853, AJ289850, AJ289843, AL050149, AF183393, AF061981, A31001, AF136009, AL133619, AJ299431, AL080159, AB040710, AR038854, AK000027, AF314091, X99971, AF122922, AL050366, I80062, AL133062, AK027209, A45787, AF199027, Z14122, AK026462, AK000418, Y14314, AF124728, AF217973, AL138832, AL050138, AR094160, AF131821, AK000484, AF000167, AC004805, AL157479, AF204760, AL080154, X68497, AX030362, M76612, AL133559, AB011076, AF267739, X99270, AK025738, AL137682, AP001601, and AP001698. |
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HTSFU12	403	834610	1 - 640	15 - 654	AV645797, BF576372, BE875854, AI814466, BG056208, AA641625, BF590255, AI207769, AA769330, BF439433, AV739607, AW952859, BF057456, AI523978, AA778120, AI126087, AI818767, AA521036, AI761020, AI356487, AV743366, AA056741, AI492657, AII29903, AA806392, AI066491, W75955, AI421680, AI419209, W69164, AI478752, AV741200, AI492658, AI436418, D19625, W80846, AI754924, F36670, AA301711, AI494483, AI208665, AA836089, F22593, N29686, W80797, AA147362, AA98305, T30433, N56696, AV741023, AI188587, AI568721, AW268728, W72859, AA341743, AV735356, AI453018, AI702981, AI832770, AI418592, F22210, F33298, AI093545, AI927404, AA595920, BF880862, C17866, AA365845, AI453017, BF216971, AW001063, F27098, F24313, AA309787, AA894545, F27921, AF151025, AF077197, AF054825, and AC004098.
HELHM15	404	834810	1 - 1559	15 - 1573	BG259399, BF307397, BE904641, BF308750, BF038514, BE298533, AI005028, W72694, BE551307, AI697515, BE218764, AU121500, AA622527, AA029760, AI701511, BE219529, AW339103, AA447650, BF353565, BF116187, W77809, AI769081, AI341093, AI360836, AU147300, AA136867, BF114827, W93881, AI283783, AI192892, AA030016, W02154, BE677375, AW206855, AV706621, BG056759, AA044298, AA136797, AI040302, AI086876, BE712689, AI376650, AW129652, R83741, R56757, W32488, BE712527, AI469894, AW015059, AI769127, T51127, H23334, AA448054, BE261534,

Name	No.	ID	Range 1	Range 2	Sequences
					BE712068, H23221, Z42428, AW592431, AA843467, BE711595, R36957, R53400, AI420084, AA044125, R83586, AI349597, AI349234, W94152, AI247576, AW073678, T46846, AA328802, R53994, AI383570, BE149945, R56909, BF820586, T17042, R39074, AW946174, BF379206, AW438998, Z38633, AW946214, AI659755, AW874504, AI863779, BF698572, BE693226, R11839, BE079713, BF892930, AL529727, BF889327, AW877263, AK022195, AL139339, AF131810, AR081887, I80055, AR081888, and I80056.
HTEJP13	405	834931	1 - 799	15 - 813	AW001355, AA426091, AW182920, AI698237, AA844647, AW592578, AA436649, AA936263, AW072458, AA678521, AA442457, AC005789, and AC005625.
HDQHB46	406	835271	1 - 1334	15 - 1348	BF061943, AW812433, AV713655, AA304148, BE185725, AB013924, and AJ005766.
HCETE50	407	835488	1 - 1582	15 - 1596	AW957127, AW953197, BE699177, BF362475, H18763, H19382, T08941, W28724, H20445, H05887, H21009, T33258, Z43127, H06032, BF362457, H14789, H09417, BE840978, R18477, T31649, BE841097, R21591, Z42039, Z44001, H10688, R21592, T80521, R14159, AA319395, AA670416, BF946986, and AB047631.
HDTBO48	408	835717	1 - 1550	15 - 1564	AI684877, BF983903, AW849899, AI621094, AA521019, AI382190, AW959071, AW959070, AW297076, AA261967, AA521108, AW503885, AW849783, AW976127, AA749367, BE165960, BF351343, AW607556, AV756824, AA767511, AW501974, BF359614, AW195175, AW504264, BE621581, AA385374, AV750803, BE173541, BE707720, BE244488, BF893281, AX047350, and J03535.
HODGL01	409	835896	1 - 915	15 - 929	BG035761, BG057691, AW167686, AI244908, BG230729, BF846088, AI991247, AV692057, AI830013, AA399299, AW029184, AU155137, AI968957, AW150717, AI680350, BF197851, AI287311, BG236203, AA018793, BF514189, AA399126, BG236059, T72915, R70366, BF689110, BF847901, AV687419, C01453, R69417, H86424, T64602, Z17845, BE048635, AA477095, AA001218, AA292279, BF342895, AW939909, AW055348, BE221910, AW591420, AI693898, AW938809, AW362678, AI924575, BF879356, AI758498, BF036475, AW664221, AA001177, AI955496, AI537441, AC004552, and AX022287.
HE8TO35	410	835965	1 - 2304	15 - 2318	BG114804, AV718161, BG119784, BG115294, BG163956, AV752850, AW362005, AL537244, AA425593, AW579708, AA193122, AV732860, AA778426, AW367244, AW856936, BF377273, BE675130, AW292921, BF978611, AA194252, AI937228, W63710, AI222740, BF349929, AI348188, AW856088, AW665835, AW005582, AA025880, AW959277, BF333804, AI753237, AI417243, AI339985, AI139606, AI972128, AI126585, W52543, AA829354, AI088259, BF333819, AI302240, AW675446, AI078819, AW857034, AI628857, AW005637, BE789386, AW516855, AI083537, AI299395, AA035526, AI492529, AA932845, BF969574, AI682947, BF375157, AI334135, AI923621, AI268859, AA425629, BF818440, AI635633, BF804458, AI022376, BE350523, AI580195, AI085676, BE547828, AI138968, AW102884, BF333807,

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HOHCB06	411	836191	1 - 605	15 - 619	AUI33135, BG168529, AU125669, BG003223, BF996340, R47419, AK001707, and AK022708.
H2CBN10	412	836762	1 - 1195	15 - 1209	AA307802, BE167429, AW847394, AW609384, AI523577, BF367034, AI743228, BF332768, AI492174, AI798703, AI084062, W22441, AI003575, AI355318, AI452975, BF512149, and AI470192.
HBJNB08	413	836997	1 - 2280	15 - 2294	BGI68908, BE669599, BE559886, BE671245, AL039242, AW574499, BF035202, AI817157, BE551031, BG058530, AI742018, AW504483, AI685441, BE549639, BE869110, AW500613, AW503295, AW513121, AW167429, AW500336, AV661781, BF446667, AA587395, AI961516, AW575813, BF438087, AW364816, AI765818, AA584374, BE799849, AI651724, AI800997, AW937184, AW575819, AW438897, BE503201, AW503486, AI637483, AI829845, AW009504, AW504274, AW518691, AW272519, BE267561, BF891128, AI279109, AI276513, AW166344, AI143557, AI273342, W56046, AII85723, AI471654, AW501952, AI281077, AA190380, AI310063, AW503285, AA159740, AW004740, AA280638, N73283, AA132689, W86235, AI689171,

			AI735565, BG036831, AA836560, AW130761, AA522514, AW129199, AW364811, AA625247, AW572342, N91945, AI224939, AA282004, AW364805, AI431950, AV661906, AA159610, AA580462, AW407894, W00701, AA541247, AA564425, AW295551, AW768660, AW504085, AA862370, BF801898, AA627299, BE463915, AW451417, W07451, BE300058, AA022631, AI796881, AA936243, AW605271, BF087798, H20906, AI216092, AI689636, F02785, W02331, N68375, W02301, AA723803, AW579427, T36036, AW408204, BF931164, BF804743, AI940700, W86262, Z43375, N69053, AW008968, F09459, BE707039, N41561, AA376661, AA580447, F11811, AA836418, AW505030, AA642416, AI866285, Z45807, AA533194, AA456569, BF798123, AW272544, AA022778, AI696746, AA553695, AW051076, AW062930, AI439991, AW449051, AW770179, AW605256, F08564, AW768397, N81090, AI625463, BE925275, BE814396, AI401779, AI611677, BF446360, AW856279, AA978095, F04771, N73077, AI939992, F04674, AW401415, BF827507, AI301465, Z20150, BF512890, AW795379, AW407546, AI269788, BE832751, AW753775, BE974107, AW879506, AW874245, AA190789, AW805911, BE769247, AK025282, AB018289, and A74692.	
HHAMF80	414	837474	1 - 803	15 - 817 AL526596, AL526715, BF672476, BE874145, N67509, AW606346, Z19454, AI421808, BF686638, AI421699, AA906877, AI128103, BG150321, N55943, BG023772, AF114494, AF162707, AF114493, AF266850, AF266848, and AF266849.
HDPUR66	415	837522	1 - 829	15 - 843 BE254640, AA088854, AA852449, AW380030, BE775113, BF753622, BE144774, BG115298, AW083330, AW753578, AF227905, AK023671, and AF200359.
HBWBX66	416	837523	1 - 735	15 - 749 BF880772, AA333308, BG115298, BF370277, BE144774, BF800471, AA085901, AK023671, AF227905, and AF200359.
HMHBR95	417	837526	1 - 670	15 - 684 AW574753, AW007117, AI348176, AA621833, AI829871, BF732563, AI280136, W96330, AA748366, AW968242, AA255609, AA948690, AA018866, T23657, H85940, H85573, AA017115, R85834, AA018636, AI022939, AA017238, AU134521, BE269699, AL536302, AB031051, AF104334, AL357033, and AK023410.
HEGAU68	418	837527	1 - 491	15 - 505 BE389141, BE389626, BE391847, BE390520, AA057228, H85626, H39014, BE937870, BF725625, H37972, AI907720, and AA013159.
HMEAD61	419	837597	1 - 2649	15 - 2663 BE729647, BE789481, BE386405, BG258301, BE515074, BE280391, AI459129, BE644930, AI660728, BE894488, AW749978, AW169336, AW370341, AA719364, BF439379, AI361918, AW188152, AI690424, AW452738, BE904978, AI810025, AA281766, BE890960, AI150426, AI587146, AA630686, AI160979, AI741787, AA634292, AA824631, AW900280, AI689370, AA233695, AA351589, AA769227, AW264224, AW029513, R41719, AI985709, AA634567, AW269038, AW674550, BE886173, AA351643, H23984, H22704, R36553, AI819095, AA973659, T58501, AI538888, AW661810, AA649086, AI933293, AI673569, R32827, AA973736, AW273585, AI497846, BG057154, AI364341, BF755875, BF927524, BF963119,

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HDTDF94	420	837726	1 - 465	15 - 479	BF343694, AU126910, AW970004, BE907577, BF676791, BE788909, BF813629, AL533833, AA588382, BE731437, BE737688, BF967077, BF725223, BF207957, BE564507, BF208159, N80329, R22829, BE772590, R17380, BE866037, N94214, BF965044, BF208977, AV657236, BE272694, BF210281, BF949650, T69554, H70673, AI928801, R52799, H17761, N91665, H55988, BF725860, AA235201, AA193652, BF243020, AI917109, BF184855, AW003912, BF211115, AI080595, AF151861, AK001347, AF153605, and AI023581.
HKAJL51	421	837785	1 - 573	15 - 587	BF696654, BF218442, BG167651, BE149009, BE544501, R43179, AA159953, AW474222, W81455, and AK027201.
HODGZ47	422	837858	1 - 1887	15 - 1901	AV714319, BE245435, BF085080, BE883963, BE315412, T67179, BE731249, BE732012, AW501306, BE077539, AV702985, AC007041, AF315591, and AF315590.
HTJMQ74	423	838145	1 - 1484	15 - 1498	AA709155, BG119984, AW519003, AA877551, AI200706, BF338058, AV717315, AI422381, AU150354, AI754711, AI333933, AA548510, AU118207, AA419622, AI753594, BF577095, AA243811, AU144834, AI961432, BE926182, AA599372, AW316693, AW241333, AI474277, AW797789, AA417659, AI242450, AI393312, AA643987, H92371, AI089479, AW999395, AA243499, BE145749, AA758663, BE184602, T25086, and AK000996.
HOHCE56	424	838619	1 - 2334	15 - 2348	BE746374, AI743383, AI189480, AV728988, BE899408, BE746781, BE562186, BF347181, BE561742, BF530313, BE294788, AV722367, BE297333, BF309493, BE743200, AI952007, BE299126, BE397775, BE268309, AW571554, AW952382, AW268367, AW269905, AW130259, BE857180, AA994030, AA639694, BF310849, AI039861, AW469101, AI280124, AI813888, AW087805, AI400646, BF434700, AI095733, AA843902, BF527954, AI056993, BF507388, AI040027, AW043686, AI184877, BF727202, BE019740, AW001144, BF305457, AI221461, AI744692, AA939338, AI188291, BF060991, AA884553, BF111321, BE222971, AW078707, AI354719, AI362107, AW239541, BF058113, AI961777, AW468853, AA620650, BF058488, BE327064, AA782108, AI631591, BF307205, Z98493, AA601020, AI123005, AI281234, AW300196, AI371785, AI983407, AI907175, AA977540, Z98494, AA037644, AI971518, AI696796, AI291368, AII93049, AI805625, AA028948, AA654142, AA424708, AW068434, H18114, AI042264, BF945716, BE902648, AA035346, AI085855,

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			15 - 789	
		1 - 775		
	838808			
HLJBJ45	425			

					Accession numbers
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HSHCL04	426	838860	1 - 1002	15 - 1016	AI282710, AL121712, AC008569, AL109797, AL138733, AC002369, AC007216, Z93015, AL031311, AF196779, AC005837, AL109827, AL109823, AL139342, AC009032, AL118525, AC005740, Z84469, AL021453, AL096791, AC004905, AP001717, L44140, AC009060, AC011311, AC004686, AC005736, AP001725, AC011742, AL136132, AC004217, AL138807, AC005520, AL117381, Z99716, U91318, AC011491, AC005562, AC011495, AP001716, AC005046, AC004965, AL022329, Z98742, AL137073, AC007298, AC005920, AC005972, AL133387, AP000114, and AP000046.
HAJBR52	427	839006	1 - 1244	15 - 1258	AL522826, BF971476, AV706728, BG258636, AA444396, AV706427, BE568645, BF000392, AI525744, AI991353, BF792197, AV707298, AA101469, AA419167, AA401605, AA633141, AA827143, AI692194, AA214618, AA157004, AW051537, BF838603, AI904815, AA566141, AA566144, AF125531, AC003083, AC024947, AB028070, and AB028069.
HSLEK65	428	839237	1 - 867	15 - 881	AC023823.
HWGAF42	429	839272	1 - 860	15 - 874	BE730331, BE730328, BE966948, AW373793, AA553665, BE932271, BE674212, BF570050, AI184600, AW004692, AI190674, BF438824, AA482462, R45646, AI521134, AA973962, AA211375, R42556, AA720003, H11452, AW966533, AW966529, AW009222, AA417872, AA632195, R52677, AI360146, AI366341, R61892, BF207156, BF963111, AA720022, BF527830, Z41453, BF889044, R87776, BF889041, W38313, AA483558, BF888313, R55720, AW996106, R43749, T30657, H95699, R86859, AA426408, R10214, BE878555, R87766, R87830, T15918, T78493, T34747, F03602, T16643, BF317404, H50912, H08592, AI302317, BF961295, Z99411, AA643729, BF570021, AA363950, R43750, BF960575, AA522619, R41527, F02068, W84692, R43495, BF314907, H95698, H52035, AW947289, AI092517, AI291295, AI570476, F07877, BF570107, AI951902, H38986, AI553790, AW268395, BF511319, AI312547, AI344432, AI343814, AW450243, AI681390, N44903, W84640, AA614791, AF131749, AJ245820, AJ245821, and AJ245822.
HOUEA63	430	839547	1 - 1586	15 - 1600	BG250786, BE798417, BF972677, AU117691, BG032152, BE904223, BG030936, AW381277, AW245141, BF183133, BF125868, BG015801, BE728395, BE613692, AI868951, AW381279, BE697890, BE697876, AW381280, AA211485, AA579574, AI566968, AW418543, AI078750, AA568661, AA604128, BG015805, AI961134,

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		1 - 1456	15 - 1470	BE901396, BF529256, AL522797, AL517020, BE562340, BE901446, BE785677, BE735080, BE901630, BE396429, BF204575, BE560942, BG036666, BE560760, AL516756, BE561305, BE882085, BE747218, BE560921, BE514448, BE514008, BE560840, BE785555, BE513446, BE396356, BG259333, BG253449, BE513910, BE560651, BG117669, BE793334, BE559972, BE268144, AI458014, BE397537, BE207639, BE408440, BE734427, BE270764, BE270009, BE908096, BE910661, BF797549, BE559822, BE561007, BE383095, BF342791, AI133257, BE618482, BE780307, BE882719, BF184142, BE397920, BE560823, BE262677, BF038563, BE383267, BE397148, BF109949, BE890675, BG036683, BE905703, BE396362, BE779277, AW604907, BF312365, AW604901, BE891148, BG251395, BE410703, BG253972, BG171410, BG113345, BE903833, BE379383, BE732486, BE560730, BE293324, BE740344, BE902094, BE280938, AI697165, BE295456, BF969680, AA642239, BG015755, AI818876, BG249520, AA411035, AI434288, AI271514, AA159213, AW733057, BE746162, AI571352, AA865735, AA970105, BE730925, BG015756, BE732514, BE264212, AA293139, BF207331, AI371320, AI536699, AA134979, AW248707, AW182002, AI198061, BF206263, BE262479, AA621552, AI261681, BE513998, AI991804, AA344380, R61634, AA372216, BE312473, BE790243, BE260676, BF568388, AI810573, AA419241, AI685434, AA371478, AW009777, AI699206, R60967, AA652700, AI688845, AI089210, AW007141, AA985082, AA135004, BE780144, AI028220, AI369965, AA489594, BE396143, AI739141, AW383812,

HLWAW3 6	431	839561	1 - 1456

HDPHI63	432	839704	1 - 440	15 - 454	BE408908, BG122097, AW579031, BE382738, AW391608, AW383823, BF795076, AK025328, D13623, AC004707, AL121949, AF119857, and AC004506.
HTEPM45	433	839875	1 - 1949	15 - 1963	BF525949, BF343049, AV689909, BF342466, AW953836, AW953891, AA640081, BF339231, AW62989I, BF526118, AA371827, BF821349, C17007, AA485613, AW953834, BF737942, AA368991, BF821339, R62666, R47871, N90491, BF821354, BF878968, H42114, BF879161, AA295668, T95371, BE769808, BE140683, H01130, T27046, AW374237, H70128, H64116, H01871, BF879241, BE769826, BE769806, N45434, H89819, T72232, H64951, N47826, R17629, H27838, H26462, and H83150. AL521148, BF966836, AV715670, BE619857, BF972274, BG122696, BF342733, BF525757, AU142917, BE619242, BG178404, AV713997, AW950883, AW372581, AA877904, AA442710, AW372587, AI770174, AI539441, AI633309, AA625121, AA490194, AI336242, BF695459, AI361039, AA773718, AW082708, AA913955, BE873985, AA625245, AW372585, BF361430, AA127749, AW015838, BE350164, AW673765, AI962383, AI951420, R25792, AI684313, AI432514, AI435855, AA229604, AI423475, BF130287, BE785728, AA233020, AA804544, AI431531, T70290, AA826095, H29402, T87869, H07001, AA156095, AA229914, T17472, AI287493, AW576352, T66752, AI094976, C04205, T66751, T87958, AV732952, AA235237, AA101130, AI027567, T17473, AI243842, AI568315, H15839, AA853458, H11749, T28950, R12843, BF962452, AI690921, AW269644, AA783031, BF800198, AI654882, AI378497, AA934605, T79599, H11826, H68911, AI218090, BE964217, R46791, T79683, AA337227, H19387, AA496055, C03988, AI586994, AA887922, AL044683, AW169886, R20752, AU125527, AI869101, AA994515, T95521, BG236017, BF000089, AA229696, BF438215, BE910228, AI370468, BE327803, AI139882, H16148, BE894248, AA883256, T80865, AI359674, AA771780, AA844103, M55905, and AI294818.
HTEBP06	434	839885	1 - 1368	15 - 1382	AW515779, BE463744, BF438413, BE503424, AI651813, AA853961, AI638483, AA977048, AW294422, BF062258, BF062332, AA470124, AI200932, AA382887, AI806448, AW072392, AI638774, AI936476, AA725656, AI651860, BF057853, AB050257, and U76377.
HSKYK23	435	839888	1 - 1106	15 - 1120	AA748038, BE619966, AI672094, AI638836, AI087271, BE463907, AI674881, AI862582, AW578455, AW515113, BF334278, AW300485, BF691245, AW368459, AI992141, AA422171, AA418478, AI417139, AW368538, AW274441, BE961013, AA422079, AA747837, AI650427, BF674559, AI913009, AI679623, BF242737, AA773231, AI831210, BE695999, AI366110, AI244783, AI434442, AA424690, AI128938, BE696000, AI766204, AA921948, AI082308, AI206146, AA436375, AI039316, W04874, BF056542, AA976333, AW235164, AA481306, AA476535, AI092299, AI990193, BF334284, AA150673, AW139793, AA128482, W46348, AI399894, AA476430, W01258, AI784656, AA143300, AA150797, N45370, AW467125, AI261243, AW976208, AA954088,

1257

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HBUAD85	436	839958	1 - 1228	15 - 1242	BG030196, BG032442, BE888954, BE783122, BE743483, BG034672, BE386624, BE562565, BF222753, BE502339, BF115294, AW139396, BE501276, AW614433, BE858517, BF056138, AW248119, BE786842, AI052681, AI761234, AW411201, AW938443, AA993555, AI949152, AI871090, BE889767, BF436876, AW249780, AW411202, AI738726, BE872701, BF590814, AW043980, AI057557, AA843225, AI312603, AI650572, AA856558, AW205313, AA922582, W80443, AI400476, AL519451, AI359552, AI373636, AW291621, AI380518, AI367604, BE878397, AI989876, AI288522, N42500, AI625717, AA426164, AA421850, AA234248, N29809, AI218385, AA026954, AI913767, BF240767, BF576009, AA406201, AI094040, AI040774, AA766054, AI025783, AA102663, BF348867, AA639223, BE775168, AW803752, AW803565, AI079744, AW206672, AW803614, AW804146, AW803554, BE041582, AI961754, AW803744, AI220885, AI188948, AI128719, AW803689, AA732751, AA625930, AI080280, BE775164, AI312703, AW167573, BE775200, AA101280, AA702366, N93262, AA744994, AA909878, H73571, BE775234, AW803680, BE082255, AA026822, BF378788, BE775152, AA575959, R94402, H66010, AA313776, BF378814, T11533, AI262440, W25021, H44477, BF594755, AI696035, BE775166, AI830325, H73572, AI675300, AI927805, BE775167, W79038, AW275480, AW838319, BF510238, AW803765, AI784494, AA236359, AA766360, H92948, AA400708, AW771970, AI953714, AI637597, AI631566, BE739517, BG230883, BE739253, BF804636, BE775203, BF378787, C02082, BE886728, BE082256, BF811793, BF343172, BG164558, AA908294, BE621256, BF812936, BE047737, AI866127, BF792767, AW023859, AI569583, AI863382, BG058150, AI913082, BE781369, AI335426, AI348777, AW827289, AV755581, AI802833, AI680377, AW163834, AW168485, AL038445, BG026428, AV712673, BG122481, BG112718, BG025209, BE895585, AI874166, AL036638, AI961589, BG001235, AI366900, BE621472, AA983883, AL513713, AW301375, AI886753, AI783997, AI439717, BF339322, AI565128, BF061283, AI538938, BG110684, AI627988, BE963244, BF970768, BG029086, AL119863, AL120853, AW162194, AV755821, AI670009, AI288285, AI933589, BG165051, AI917428, AW020419, AI445990, AV725442, AI827311, AA493923, AW303075, AI613038, AI269862, BF872663, AL037582, AL037602, BF814447, BE138658, AW149925, AI590686, AI445992, BE620444, AI349645, AI912510,

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AL080124, AK000614, AK000614, AK024538, I89947, AL080074, AL157482, U72620, AL122049,
A08916, AF183393, AL353956, AL389939, A08910, AK026528, A08909, AF130099,
Y14314, AL117435, AR038854, U67958, I48978, AL162002, AF130066, A08913,
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AL133557, U35846, AF113677, AL133640, AF153205, AL359601, AF158248,
AX026824, AX026823, A58524, A58523, AR020905, Y11587, AK027213, AF242189,
AK000206, X72889, AR000496, U39656, AL117585, AF116631, AK026532, AF314091,
AK000618, AK000418, AF130100, AK026744, AB048974, AK026462, A03736, I68732,
AK024524, AR083266, I03321, AL050024, AF162270, AK026947, AF026124,
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AF056191, AF106862, AL389935, AF230496, AF130104, AF003737, AF113690, E03348,
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AK026762, AL137480, AL122100, AK027144, AK026627, AF090903, AK025524,
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AR079032, AL050108, U80742, AL122093, AL117432, X96540, AL050366, AK026855,
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AL117416, AX040974, and AF130092.

HCEIN85	437	840000	1 - 1971	15 - 1985	AL521658, BE739899, AL537917, BE796545, BE795494, BE796051, BE798186, AL528746, BE781632, BF346946, BE250392, BE253830, BG253619, AL531871, BF529641, AL520255, BG180990, BE906989, BG178265, BE882440, AI440480, BF311412, BF346440, BE795472, BF528132, BF529868, BE252198, AI937005, BF346604, BE273903, BE293093, BE893674, AW071864, BE257980, BE904420, BF976000, BE294343, BF683756, BE781804, BE389295, AI564755, AA482401, BF313162, BE793749, BG170781, AI638564, AA533105, BE778083, AA482546, AL520256, AA641620, BE206843, AI281716, AW328722, BG057343, AI963493, BF686194, BE618183, BE208629, AI469386, AA804959, AW615626, BG258047, AA458650, BF568797, BG256030, BE304575, AA158523, AW079515, AI083728, AW245143, AI298185, AV743341, AA632061, AL521659, AL527286, AW316953, AA305998, BE260707, AL528747, BE266948, AI436766, BE262129, AL537918, AW196786, BE261305, BG030950, AI241942, BG256906, BE904149, AI469081, AL513886, BG178424, BG057011, BE791385, AA922280, AI146879, AI858189, AL528997, BF664170, BF238005, BE561194, AI582808, BE301326, BF128635, AI886175, BE795332, BF799598, BF184664, AA127054, C15514, N31178, BE905893, BF530369, BF568647, AA127053, BE561245, BE274728, AI828133, AW338173, BE396972, BF568993, BE936673, AW207688, BG258840, BE895646, BE396812, BF808283, AI865168, BF530599, BE513502, BE618747, BE280443, AW878476, BE537649, D29432, D20434, BF342492, BE780664, BE273365, N22704, BF530035, BE908400, BE273376, AA429099, AA834519, BE545171, BF568686, D50914, U77415, and AK024840.
HROAX39	438	840008	1 - 513	15 - 527	BE744232, BE747972, AV728364, AA121599, AA379693, AA379373, BF342392, AA496170, BF725242, W25608, AA371731, AW372195, BE709350, AI208593, AA249784, and AK000206.
HHETF37	439	840056	1 - 615	15 - 629	AI872254, AA975688, AI872255, and AC006479.
HKAAS52	440	840160	1 - 1398	15 - 1412	AL528898, AL530733, AL530742, AL529747, AL519286, BE901487, BE790563, BE732756, BE733523, BE396351, AL525215, BG106992, BG113455, BE397032, BE397233, BF982760, BF342948, BE888515, BG118096, BE887823, AL529746, BE900855, BG023983, BE732152, BE901319, BE409368, AL530741, BG033499, AI084732, BE312929, AL525214, AW959902, AL528897, AL519285, BE549059, BE296657, BG253556, BE901744, BF966782, BF686130, BF125082, BE206925, AI147481, AI971491, BE296027, BE260435, BF125602, BF339628, BF125493, BG167442, N34073, AV749210, AA321112, BE560667, BF125316, AW513665, AI951045, BF311602, AI650663, AW058103, AA909530, BE834264, AA258103, AI971506, AA300789, N40373, BF770666, AI061239, AA600054, AI000807, AW593654, BE901119, AA969975, AA281492, AW298633, AW860213, AW026768, AI866427,

					Accession Numbers
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HISES36	441	840222	1 - 960	15 - 974	AL519782, AL521031, AL537771, AL532982, AL519743, BF340693, BE792891, BG029834, BG033672, AL526699, BE883832, BE778826, BE260201, BE260258, BF115935, BE313721, AI929355, BE537966, BF527209, BF568475, BF529551, AA351269, AI199579, R84529, Z43097, R88248, R84486, AA351822, AW998329, BG104854, H20040, BE795625, AA429839, BF969852, R85183, R87201, BE160604, BE160589, R58225, AA442608, BF238333, BE328809, BF222046, AW590915, AA477650, AI633379, AA775842, AI937305, Z39190, AA962631, AI341814, AA436850, BF511356, AA740431, AI867453, AI122658, AI339114, AI671560, AA369393, AW953817, AW292804, AW069479, AI041102, AW957086, BF508854, BF826502, AI675398, AI765639, AA917911, AA210727, AI095222, H88131, R85922, W20393, BF793459, AA044257, AA971861, AL521030, AK026982, AL034548, and AF116644.
HAPBL12	442	840579	1 - 1709	15 - 1723	AL525580, AL525531, AU136037, AU135156, BE897817, BE896636, AU133754, AU127192, BE858832, BG253874, AW962760, BF510434, AW954960, BF574918, AU160122, BF977858, BE961102, BF185921, BF215392, AI378490, BF248416, AI800985, BG034956, AA156289, AI073518, AA773818, AI963320, N99672, AA234550, D56172, BE930107, AA256954, BF244940, AW362473, AA046377, AA251743, AW362472, BF102934, BF241316, AV720349, AA156083, N42280, BF245375, AI160238, AA704119, R72972, AA112337, BF086529, R25715, AA256645, AA371062, AA320096, AA370316, AA236661, BE928494, BF084201, BF086503, AI525894, BF084221, BF084272, BF086530, BE961214, BF086505, BE928500, BF084190, BF185469, N47760, BF084203, AA137170, M85957, AI611807, BF695980, N79724, BF086500, BF114811, BF030327, BF243876, BF154789, BF086533, BF094389, AK023459, and AB050431.
HTJMJ95	443	840671	1 - 1244	15 - 1258	BE277107, BE910440, BF795570, AU130228, BF792887, BG023805, BF525462, BF685514, AU129385, BG035515, BF205159, BF000802, AA780068, AW005581, BE390866, AW025527, AI871472, BF036597, BE730035, AA029831, AU151517, AW961102, W93417, AA836105, AI240879, BF695942, AI336855, AI276262, AA737662, AI189612, AI076231, AW963522, AW261921, AA857959, AA464962, AI200129, W86177, BF197108, AV649936, AI004350, AW518042, W86176, AI274473, AA994284, AI248784, R21076, AA811098, N49076, AA780382, AW078888, W92692, AI470273, AA379908, AV727913, AA378898, W92672, R20463, R46252, AA737628, AI587223, AI376292, AA029291, AI553643, AW139555, C01217, N74187, AA337611, AA633124, AA251752, AW168901, W04352, AI400947, AW248567, BF931644, AA085198, H92104, D38732, AW367085, D38674, D38745, AI351139, AW044693, D38734, AI754949,

					AA707474, BE965121, AF290195, AF146367, AK001477, AK023070, AF113540, AF124523, S77771, AK027188, I89934, and I89944.
HTELT78	444	840700	1 - 1234	15 - 1248	BE876668, AA633788, N58116, AA779964, AA993172, AA993810, BE972250, W02490, AA250756, AA812535, N74558, AW105026, AA323882, AI015512, BF801908, AA978273, AA912417, AA410936, AA864226, AA721605, AI954398, AA077596, AA937643, AA721388, AI692899, AI358200, D20826, BE545086, BF804475, BF848741, AI018574, AI221163, BF848765, BF081612, BE545153, BF848801, BF734172, AJ277291, AF234882, AF234885, AF234884, AC002542, AF234883, and AC003987.
HHFBP51	445	840811	1 - 918	15 - 932	BF979271, AW449278, BE879506, T60555, BF673064, AI792473, AW753909, AI205976, AW580518, BF131034, AA346826, BE176521, BE893411, BF694542, BE176315, BE893316, and AV713261.
HHBCS13	446	840896	1 - 2129	15 - 2143	AW207713, AI810396, AW966479, BE748341, BE748813, BE537890, AI302169, BE042761, AW236326, AW029389, AA450190, BG030357, AA526956, AI023982, AW071139, AI263326, AI983639, AA425171, AW382198, AA157568, BE565681, AI701334, W78960, H72423, AW371720, AW371748, AI079467, BF030000, AW958846, AA626156, W80454, AW273396, N70430, BE185286, BF511249, AA384726, AI183810, AA384586, AA296752, AI422655, AV733287, AA479929, AW009098, AA450124, T70566, AA314325, AA357632, R77683, R34229, AW802770, AW250354, R77682, AA331541, AI081752, AA333812, BF742908, AA331747, R35556, BF741669, AI560564, BE727612, AW582549, BE537776, AW245233, BE564677, BF331517, T70837, AW468924, BE696298, AW609900, AI620330, D20574, AW371723, AK026969, and AL132875.
HAJAT72	447	841335	1 - 2055	15 - 2069	AL519223, AL135396, AW978864, AL519224, BG110879, BG167639, BG167072, AL516415, AA133979, BG170520, AW367332, BE618516, AW367242, BF695975, AI004681, AA829651, AL516416, BG150372, AA287338, BE785672, BF669485, BF001602, AW952891, BF793907, AA287324, AA173276, AA126774, AW673513, AA210721, AA205833, AI075920, BE926877, AA210826, AA688155, AI630319, AI376711, BE892332, AI026835, BF982501, AI858354, BF337294, AW367328, BE542574, AI630566, AI630392, AA504314, AW070942, AA836121, AA489233, AI028632, AA598962, AW602275, BF242269, AW408375, AI206140, AI915314, R22949, W19388, BF688156, BF795195, AA599018, AW104080, BF910961, BF796284, BF243265, AA934545, BF239711, BF769690, AA831728, R78445, AA342412, BE697504, AW593702, R23055, BE047778, AW013923, BF309124, BF088965, BF736758, BF795590, BE697505, AW403341, AA342411, BE711348, BE907981, AI343050, AW268252, BE694298, BE711346, BE697502, BF736767, BE694249, BE694259, BE694286, AA173149, BE694241, U46258, and BF308651.

HTLHK92	448	842395	1 - 612	15 - 626	BF344166, BF999691, BF569907, HS2351, BF999694, BF337899, R69911, AA421401, BF127938, BF570393, T49326, AA359077, AA330666, AX018076, and AF186469.
HAGBQ10	449	843516	1 - 1466	15 - 1480	BF968525, AI246710, AI763071, BE674657, AA460540, BE328200, AI168314, AI611086, AW451887, AA460541, BF675159, BF507593, T16448, T08984, AI016123, H24284, AA668246, AI223180, AA971942, R60880, BF590051, R23514, Z38546, R43444, BE701712, AW961900, AW182351, Z20913, AA972023, F05576, Z20948, AL137748, AB046764, AF072371, Y18276, AF072372, A74680, and A74602.
HCRBB73	450	844034	1 - 1403	15 - 1417	AL523131, BG261097, BF340183, BF305691, BF035093, BF303873, AW196621, BF306489, BG121861, AI870592, BF311037, BE205899, BF315962, BF369701, AI418236, BE672680, BF304287, BG055835, BF431529, AA341046, AW139473, BF090415, BG104844, BF059456, AI632174, AI968214, AI970377, BF378475, BE261334, BF437294, AA302039, AW796541, AL523132, BE937882, BE746585, AW367194, AA835104, BF758565, AI990177, BE825241, BE019361, BE206717, and AB029017.
HWHHU11	451	844529	1 - 2048	15 - 2062	AL522002, AL521608, AL521607, AL522549, BF305304, BE732838, BF971112, BE743976, BE262711, BE899550, BG109203, BF344719, BE741195, BG248593, BG115015, BG117962, BE883834, BF688906, BG249430, BE410162, BF316646, BF982386, BE281306, BG164142, BF793440, BE272171, BE901175, BE409982, BE901577, BG165427, BE729126, BF569778, BF982251, BE872442, BF970528, BE735023, BG166435, AL522001, BE410692, BG109330, BG116617, AA206373, BE736037, BE299415, BG249255, AW579408, BF340859, BE744899, BF570295, BG170896, BE386152, BE546682, BF673757, AW964395, BF340242, BF305644, BG251248, AL521166, AI905440, BE547252, AI905525, BF183244, BE301893, AI961339, AI884509, BE280374, AA142829, BF237978, AA039438, AL522550, AI189410, BE018945, BF968375, BF807239, AA318302, BE281612, BE779176, AI871802, AW732476, AL521165, BE018944, AW663672, AI185017, AI473764, AA922287, BG025351, AI677950, AL532064, BG108566, AA121661, AI052759, BE388318, BE349225, AI828786, AW662459, AW250139, AI086493, AA903122, AI678707, AI720105, AW571711, BE207861, BF675911, AI347904, AW956985, AA580387, N25780, AI624202, AI188539, AW268633, AA481905, AI302604, AI376533, AA630400, AW182583, BE122842, AI570190, BF753347, AI419954, AI689084, AI696156, BF878947, AA158660, AI814113, AW000854, AW675147, AA159025, BE742694, R99569, AI357664, BE047488, AA307924, AW005618, AI752100, BE743048, R45648, W21970, AI628527, BE870251, R99920, AA954481, AW193234, AI679473, AI554473, AI560258, H20615, N39758, H53221, H53115, AA186671, AI439924, AI288336, AA128573, AI184323, BF222290, AI432912, BF940624, AI590039, AA588482, BE247774, R99741, AI886981, AA843226, H57919, AI933122, N44679,

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HRAEB76	452	845247	1 - 1513	15 - 1527	BE670499, AW243355, N66545, AW612426, BF674012, AI435149, AI432143, AL515165, AW070187, BE540051, AW104479, AW274134, N98785, R76933, AA909433, AW087681, AA037531, AI914469, AI382043, AA625299, AA579805, AA133208, AI949288, AI985348, AI700297, AW571775, AA037427, AA970155, AI867878, AW976779, H87705, AA776877, H87196, R71139, N46113, AI358657, AA814377, N64190, AA812771, R71639, AA317842, U89885, AI868799, BE242115, R47844, BG114598, AA504754, C20783, AI955462, and AK026276.
HPJAO13	453	845355	1 - 749	15 - 763	
HHENF67	454	845465	1 - 803	15 - 817	AI655754, AA333460, AW370405, BF960997, BE169979, BE077089, AW975620, AA776153, BF985194, Y08474, BF351270, AC006017, AK025287, and AK026056.
HLQDC55	455	846521	1 - 525	15 - 539	BF893887, BG168409, BG167900, BF030549, BG170012, AC012312, and AC008534.
HTTJW49	456	846674	1 - 647	15 - 661	AA199865, BE901642, BE730874, BE391709, BE466924, AI769428, AI061340, AW268880, AA707168, AI970984, AI884812, BG149869, AW444872, AI479954, BE220097, BF002310, AW590535, AI701720, AI356088, BE503614, AI765045, AA722812, AA410516, AI267987, AW236544, AA005114, AI298592, AI865503, BF432858, AI633370, AA878382, AW389168, BE895750, AK000766, AF118838, AX004413, Y17571, AF164632, AC012156, AK025227, AF164526, AF164528, AF164527, AC004458, and AF164525.
HSYAD28	457	846772	1 - 1675	15 - 1689	AW968529, AW968703, BF590615, AI761179, AI651733, BF062638, AI056223, BF247343, AA426281, AI860123, AI566334, BF222797, AI650743, AI911944, AA699297, AI078184, AA627742, BG249594, AI192849, AA598410, AA938710, AA210770, W88803, AA485080, AA705470, AW971463, AA641836, W88802, AW971475, AA485191, AA211899, AA215562, R82360, BE698664, AW008873, BF851964, and AK026839.
HLWAR77	458	847144	1 - 1265	15 - 1279	AA449919, AA449920, AF119815, AF257210, and AF268899.

HCE2W33	459	847388	1 - 2032	15 - 2046	AL521424, AL523210, AL514620, AL525645, AL537131, AL521425, AL523209, BE739509, BF965558, BG031889, BG258324, BE891149, BF311286, BF530602, AI057627, BF182863, BE560984, AI479627, AL514619, BF037516, BE314805, AI859259, BE297709, AI523551, AI660477, BE797143, AI885132, BF038307, BG027266, BF966086, BE388115, AW958486, BE382803, BE560800, BG115029, BF206872, BE268774, AW958520, AW170144, BF345159, AA779831, BG104568, BE276916, AA699996, AW001491, BF793361, BG108512, BF691744, AW955061, AL527427, BE739244, BE314640, AI191325, BG122405, BE548451, AA779172, C18348, W60861, AI814375, BG119829, AI267877, BE780354, AA434226, AA557294, BE560620, BF338341, BE262392, BE560215, AL037181, BE536344, AI371147, BE782287, AI149368, AII91738, AA449960, BE018452, AW574717, AW009827, AA324535, AI523552, AA434312, BF206512, BE856127, BG170162, AA916827, AI056484, BE387175, AW148512, AI401735, W42799, AI341747, AA846389, AI520661, AA173280, AW962582, AA773096, AA612929, AA223353, AA405603, BF929696, BF751515, AI741705, AA582585, AA223253, BF206870, AA255640, AV647239, AI952905, AW300754, BE252212, T32945, BG109634, AI952061, AW167381, AW408419, BE295519, AW518702, BE882636, BF305409, AW589482, BF087318, AW084813, BE302065, AA188656, AL037180, BE261658, AA410555, AA708856, AA873019, AW957316, AA173203, R90786, BF849877, AA312624, H39026, BF939729, AI202617, AW967939, AA612830, R85547, N35339, N74258, AA857247, H41500, AA559142, AI611415, AA953999, AW272284, AA578247, BF931945, AA826989, N95254, R87593, BE857465, AA284487, BF929625, AW338532, AA516267, W60737, F12777, H39797, BE243900, BE709158, F11343, R95140, AW517268, AW166856, F32639, R34417, AI623493, R87508, AA309639, H41555, N89722, AA826718, AI361539, T31070, H14134, AA257998, BG167097, BF002936, R85567, AI864037, AA258866, H68648, W24549, T32944, H85256, AI611540, AI244230, AA825443, Z46220, AA213790, AI869008, AA410556, T32946, BF791959, F10385, T75048, AA405546, N55535, BF940204, AL036822, AW403313, AA213875, AA074090, BE560217, T30898, N76421, T31929, AW392209, AW958525, H14093, AA604307, Z45387, BE077235, AA903640, R85944, T35924, T23531, AA857144, AI361274, AI278090, AI002669, AW580277, H39051, AA224282, H84923, AII87996, AW467485, AI340553, R88874, AA075982, AA401201, BE243365, AA188558, AA378194, AI350817, AA380570, ZA1846, W42691, AA857402, AI282309, AI972748, F09003, H14136, T68752, R48954, AX013711, AK025329, AC004771, AC032038, AL079315, A75494, AC004771, AC004771, AC004771, AC032038, and AC032038.
HSOAC39	460	847431	1 - 702	15 - 716	BF508798, AI829099, AII26506, AI200037, N25625, AI128843, AW024969, N34223, N36303, AW020616, AA605122, AI217597, AA743134, N26904, AA729493, BE857354,

					Accessions
					AA568193, AI160533, AA568681, BE855663, BG054946, AW450603, AI695490, N24885, W52651, AI802647, AA648514, AI312534, AA806507, N72137, N35103, AA729125, N34254, AI219599, N39790, H86995, R73200, N26781, AI032141, N25653, H86994, W00385, R73137, AW298649, AA296449, N28403, R26304, AI299683, AA988539, AW452862, AW453038, AI361669, AI039557, AI674252, W52017, AW236299, AW515490, AI452444, AI141901, AA768761, AW629545, T25829, AW074182, AI984739, AW583163, AI805445, N20053, BF958127, BF964329, AA543074, BE081422, T25828, AA358828, BE152130, AA653691, AI362330, AW606102, BE170656, AF238079, AC073610, and AC073610.
HAJAV01	461	847551	1 - 897	15 - 911	AW503042, BF182997, BF689491, AW503046, BF998184, BF998181, T19151, BF530120, BE621150, BE872171, AA326792, BG035951, AW843415, BG115797, AV731715, AL354615, and AL049569.
HWGQC67	462	847568	1 - 1049	15 - 1063	BF676673, AW361928, AW370592, AA029045, BE464022, AW955794, AI360473, AI074083, AA331716, BF755692, BF475271, AI913154, AI873811, H03163, BE093260, AI417501, BF919980, AI934369, BF001451, BE088349, AI791728, AW466890, AF311320, AK025993, AI269529, AP001747, AP001625, AP001626, and AL355683.
HFIJC17	463	847634	1 - 712	15 - 726	AA468731, AA580930, AB045363, and AP002534.
HBXCD74	464	847677	1 - 2048	15 - 2062	BE270761, BE560646, BE396923, BE513879, BE267678, AW834931, BE559852, BE513327, BE270061, BE872948, AL045780, AW590225, BE268811, AW970178, BF940066, AI376010, AW072377, AI401550, AW953330, AI362753, AW005335, AW575918, AI928945, AA524093, AW592039, AW002375, T33717, AI097125, AA514373, AI424874, AA490412, R55849, R89670, AA502607, AI361469, R52206, R21271, W60204, BF940638, R45456, AA906578, R24724, H17344, W35351, Z42802, AA757050, AA309188, D52329, AA479853, AA490314, AI929199, R45361, AA456776, AA806240, AA394201, R55770, W32915, AI380329, Z38945, AI003744, AA411018, R52109, AI471415, AA863370, W60203, AW866322, AL048656, BF921092, BF038804, AW238730, BF904194, BG180996, AW075305, BF343568, BF344691, N49165, BG117375, BE966011, BF822127, BF764538, BF969316, AL039086, BG104775, BE254907, BG104699, BF904258, BF798503, BE966787, BE393551, AW071417, AW162189, BF835240, BF885000, BE895765, BE886728, AI498067, BF854113, BE965121, AV759922, AI923989, AI307557, AI312428, BE620444, AI684013, BE895585, AI636619, BE047833, AV704051, BF812459, AW827289, BF339322, AI872914, BF792928, AW411235, AI345677, AL138406, AV721967, AI887775, AL036638, AI290153, AW167918, AI611728, BG110517, BE904911, BE910373, BE964876, BE966699, AA572758, BE543089, AL119836, BE536058, AI340519, BE963286, BE789764, AL040277, AL110306, AI307734, AI917963, AL036780, AI929108, AI468872, AA420722, AI698401, BF960601, AI537677, AW410972,

BF816037, AW084056, AW834302, AL040241, AI538885, BE544111, AI570966,
AL040694, AI950892, AI446373, AI916419, BF856052, BG107576, AI648699,
BE045182, BF338002, AI343059, BF753013, BF204484, BG105895, AI590686,
BG121999, AA420758, AI349933, AI288285, AI345253, BF909758, BF853807,
BF337602, BE965724, AW151136, AI002285, BF885082, AW129230, BF930354,
AL043052, AW410969, BE907440, AI866770, AI336634, BE048098, AW059828,
AI955906, AL045266, AI922901, BG108147, AA494167, BF034540, BE878725,
AW409931, AI571511, AW999049, AW858254, AI521103, AV723809, AW827144,
BG178911, BF672397, AW409775, BG151388, BG034550, BF818009, BE138658,
AA493647, AA853213, BF990167, AI345608, AI335426, AI348777, AI889376, AI783504,
BE965192, AW149876, BG256592, AI620056, AW151714, D50977, BE964614,
BG113299, F33254, AI874243, AI249962, AI310606, AI623941, AV654326, AW081255,
AI471361, BG032810, AW834355, AI345527, AI251830, AW088899, BE963918,
AW827115, BF793176, AI345471, BE072233, AW858243, BF924882, AI250856,
AI366549, AI636719, AI539153, AL040011, AB046049, AR083286, AR083285,
AB022160, D16301, AL133016, AX006092, AF208850, U49908, AF056191, A08916,
AL117435, AF158248, U42766, AL117432, A08910, A08909, AL110197, I48978,
AK026528, AL122098, Y11254, AB044547, AF113676, AB048975, S68736, A93016,
AL162002, AK025092, AF100931, AL133558, I33392, AK025339, AL133075, AL137656,
AF244915, AK000647, AL137550, A08913, X93495, I89947, AX019230, AF118070,
A76335, AX020124, AL157431, AL110280, AL137479, AF003737, I89931, Y11587,
AF130087, AK025015, AF116649, AF130059, AK026629, AL122110, AL137538,
AR087170, U75932, A76337, Z82022, M27260, AB047904, AL389982, AL162083,
AK027096, A65341, AL049283, AK000432, X62580, AF162270, U96683, AF218031,
AK026534, AF113689, AF028823, AL359583, AL049452, X63574, AR011880,
AF116639, AK026533, AF119899, AK026462, AF090943, AF119878, AK024538,
AK027213, AB046642, AL389935, AF026816, AB049892, Y10655, AL359941,
AL137283, AK025391, AF217966, AF119865, AK026855, AF118090, AF119909,
L30117, AK025407, AK000212, I17767, AK025798, AL137529, AF130099, AF130077,
AK026551, X98834, AK026408, AK024594, AL080060, AL050024, U67958, AL049430,
AR072149, AB052191, AF183393, AF090886, AF180525, AL050138, L04504,
AX026824, AX026823, A58524, A58523, AX019229, AF113690, A18777, AF119894,
AR068753, AX042059, AF130092, AK027200, AK026624, AK000323, AL353625,
AF260436, X72889, AF111112, AL137556, AB041801, AK026583, AF155221, X84990,
AL080127, AK026630, A21101, AB034701, AK025383, AK026592, AR068751,
AK027116, AK024524, AF113019, AF116676, AB048994, AF113677, AF119875,
L13297, AL122050, AF119871, I46765, AK025209, AL389957, AR072729, A93350,

HPICD14	465	847876	1 - 1445	15 - 1459	AL137281, AL080162, AF090903, AX010492, A08912, AJ012755, AF116631, AL389939, AK026542, AL137463, AF090934, AR083266, AF065135, AL049382, AF069506, AL050280, AL117583, AF031147, AK027204, AK027204, AL117585, AK027160, I92592, AL359601, U87620, AF116654, AF146568, AF261883, AL080148, A12297, AB048953, AK000486, AL122121, AK026532, AL050393, AL110196, AK026642, AK026959, I17544, AK026494, A07647, U68387, AX027129, I48979, AK026506, AL353935, S78214, AK026608, AF113694, S61953, AF130104, AF078844, AF100781, AL080074, AF097996, AL133093, AF218014, AL390154, AB050534, AR059958, AK025632, AK025573, AL110221, AF242189, AK026452, AF130068, A45787, AL442072, AK025484, AK000391, AF321617, AL133113, U00763, AF104032, AF207829, AL133560, AK000652, AF017437, I09360, AF067728, and AA479727.
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HBGNW78	467	848214	1 - 966	15 - 980	
HSDZN36	468	848395	1 - 1451	15 - 1465	AW975846, BF038960, BG164740, BE889792, AW977203, AI590719, BE544475, BF031694, AW130905, AW438800, AI246022, AI224526, AI741866, AI120785, AW084719, AI290610, BF955402, BE218170, AI333346, BF437535, AA398620, AI420570, BE326499, AI571005, AI273665, AW025836, W56091, AI559125, AA120784, BF700090, BE348867, AI220406, AI224528, BF223717, AV709156, AA625099, AW316523, AI377451, AI969120, AI417968, AW276374, AI417991, AW276362, AII90743, AA886409, AA625773, AA234448, AA765287, AA236585, AA417754, BF343377, AI285589, AV703351, AA678422, AA125907, AI015199, BE764876, AW337260, H86847, N75304, AI886263, AA249001, AI866198, BE927551, AA249049, H86789, AA393271, AW955953, BF826717, AL049631, and AC011297.
HFPCS09	469	848480	1 - 1129	15 - 1143	BF951763, W27832, AL157531, AA393929, R15334, BE829437, AA326249, R18065, W27473, AW904344, AW905845, R19862, BE829443, W26700, R59515, T30655, H30848, AW904362, R14187, BE702294, W25837, BF963603, AA338605, W27511, F11672, Z45706, AW896283, BF960672, W28843, AA364544, W26007, AA318087, AW897408, BF960156, BE699595, BF960075, R19866, AW897412, BF948494, H18892, I40028, AB032436, and U07609.
HAIBB95	470	848610	1 - 1169	15 - 1183	BE271723, AI655778, BF033546, AI363260, BE897788, AW977041, AI423546, AW955877, BF111722, BE748038, AII49829, AA721308, BE179758, AI290323, AA994157, BF964002, AW068209, AA479257, AW611773, AA288015, AW297655, AA368376, AI028554, BF094791, AA702220, AA313639, AW197120, AI651578, AI873070, AA578960, BF094858, AI424122, AI249969, AA479107, T61903, BF224009, AI242976, BG261238, and AF159423.
HHEFI08	471	848769	1 - 444	15 - 458	AL031296.
HE8OM63	472	848773	1 - 419	15 - 433	
HAJAG88	473	848785	1 - 936	15 - 950	BF691763, BE909311, AW979048, AA829001, AA837772, BF820928, AC008154, AB041549, AC018646, and AC009275.
HAJCL92	474	849547	1 - 2664	15 - 2678	AU132620, AU133120, AU124827, AU124196, AU124499, BE891195, BG055132, AW377159, BG035852, BE873140, BE855894, AA399095, BF664758, BE886084, AA404314, AV706415, BG028303, BG122689, BF185741, AI917328, BF939504, AW610353, AI357365, AA861290, AI911596, BE783702, AI768752, AA429300, AI636894, BE672397, BF849079, AA167019, AW961286, AI554305, BE784466, BE719707, W16697, AW610341, AI828381, AW956556, BE719680, AU148613, AA115100, AA398205, AII84626, AA641723, AW367645, BF439756, AW073332, AI564257, BE856232, AA314835, AII59892, AI122582, BE139633, AW070813, AW959690, BE833827, AA115099, AI422256, BF108530, AII61217, BE925989,

HHAMA15	475	849576	1 - 1033	15 - 1047

Column "15 - 1047" accession list:

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Column "1 - 1033" accession list:

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AX014101, AF116688, AF017437, AK024992, A86558, AF119896, AL080159,
AF107847, X80340, AL137271, AF192557, Z82022, AK000212, AR072729, AF217982,
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HDPSB01	482	850581	1 - 463	15 - 477	BE379527, AW081156, AA922106, BF977808, AA477561, BG014271, AI337179, AI968953, AA779894, AA057117, R54309, BF341348, AA778559, AA057857, BF059636, N78845, BG013990, BF902765, AI474472, BE536182, AA676778, AA344414, T32828, R51917, AI473542, F32281, T16188, AA991426, AI828972, BF820815, AW247906, AI090778, AA348306, AW591489, AW874099, T31940, AA876008, AW191893, AA074278, AL040397, BF990005, AA315419, AA977415, Z40196, F01544, AI886120, AW083615, R77693, BF507678, AI290413, AI972167, AA339386, AW062919, T47999, AI739073, BE396335, AA295944, Z42029, BF965297, BE792943, AI365049, AW292621, AA196376, AA602887, T50987, BF751688, T55984, T36028, AA324119, BE767562, D31089, BF309989, AU125439, BF760615, AA682276, BE728496, AA469083, BE183021, BF349989, AI042568, AA069752, BF747133, T51050, AA873243, BG249766, BE892607, AA075933, AI571441, AI344280, BE856715, AK021939, AK023356, AK000549, AB045994, and AK022675.
HKAPB61	483	850629	1 - 610	15 - 624	BF982188.
HMEGF05	484	850930	1 - 819	15 - 833	BF131978, AA304731, R67648, R71055, AW956573, AA812755, AA344247, AI906808, AI285921, AA917714, AA608997, BF208995, AK000122, and AC002550.
HPTVF17	485	850963	1 - 965	15 - 979	BE255193, AW389851, BG010248, AW389780, BF984555, BE810495, AW389841, BE254704, BE292987, BF741165, BE408399, BE898624, BE254780, BE742465, AI520691, BE066337, AI658516, BF082448, BF851417, and D87071.
HDLBF57	486	851303	1 - 791	15 - 805	AA224259, T87253, BF923435, BE393764, AA968591, U73628, and AC002554.
HE8QT62	487	851311	1 - 1714	15 - 1728	AL516524, AL523530, AL522627, AL521047, BE250532, AL520378, BE299300, BF314768, BE797074, BF203284, BE257240, BF305588, BF316892, BF312308, BE782304, BE740203, BF317471, BE312340, BG259043, BF304705, BE783998, BE294875, BE909807, BG256226, BE314446, BE261392, BE297500, BF675381, BE744361, BE744966, BE548635, BF033935, BE251256, BE887611, BG119882, AA456543, BE747714, BG248395, BE266756, BE793743, AA126176, BF515616, AL522626, BE792687, AL520377, AL516523, AL521046, AW577340, AA405598, BF037537, AA223646, AW799736, AF143676, AB023049, and AP000512. AW665408, AW613505, BG030618, BE465796, AI739103, AW952903, AW450294, AI432411, AW295155, AI346458, AW104928, AW665365, AW771168, AW752101, AW614194, BF061040, AI040168, AA443231, BE936842, AA846199, AW050768, AI382105, AA969903, AA213661, AU156681, AA213714, AA680356, AW021666, H00349, AI247239, AA443193, R75629, H84011, BF337897, AA019205, T89550, AI192058, AA342622, BF906498, AI984950, AW016702, H84010, AA148657, BG256716, C02452, AI651149, AW900852, AW504163, T89462, R75728, BF094383, AW900055, AW177473, AW177492, AI350666, AA161357, AI695407, AF246234, R10139, AI245907, BE787062, BG121187, AL526477, BF965645, AW900054, R10546,

and AK001888.

HE9FI33	488	851342	1 - 548	15 - 562	AV656281, R01832, AV651324, AV651869, and AV651287.
HOUBJ40	489	851343	1 - 722	15 - 736	AI819381, AI310001, AI765179, AW469513, AA430317, AA916310, AA165202, AA642449, AI026968, AW771605, BE502623, AI420843, AW079421, AI934173, AW015472, AA905985, AI363754, N64513, and AI352030.
HHEVC06	490	851355	1 - 1128	15 - 1142	R94248, AA886480, AW963444, N77480, AW505253, AA825827, AV760388, AF111167, AC003950, AL139286, AC009948, AC004787, AL162424, Z99716, AL163210, AC005821, AF131216, AC002375, Z99755, AP001711, AC008753, AC005529, AC008745, AJ010598, AL121897, AC005971, AC002091, AL158141, AC025593, AC005840, AF168787, AL157938, Z86090, AC007216, AC004962, U95742, AL049636, AC009314, AL121929, AL021878, and AP001712.
HE8FS36	491	851478	1 - 522	15 - 536	AA081924, AI826032, and AW139546.
HE2SS47	492	851581	1 - 1234	15 - 1248	
HTELD06	493	851722	1 - 908	15 - 922	BE144299, AW963157, AW797329, AW797435, AW797324, BF208787, AI902754, and AI902734.
HDPJH06	494	851787	1 - 2211	15 - 2225	AU123917, AW965127, AI268323, BE537090, BG165313, AW192928, AW276212, BE567670, AW235662, BE813321, AU136774, BE701024, BF435975, BF061774, AW772181, AI418496, AI206440, AI807458, BE047930, AI765697, AI571531, AI963307, AA284379, BE701023, AA029521, N46812, AI800943, AA954945, BF752658, AI698158, AA582925, AA029456, BF130638, N40954, N45167, BF111150, AA868735, AW377314, AA847201, BG059073, AI753676, N39320, N50565, AA910022, BE873987, AW770649, AW104970, AW36781, BF132245, AW367857, AA452831, W31257, AA292701, N50509, BG055311, AA452971, AW367869, AI651989, BE007388, BE007387, BE007389, AA995702, H48376, BE007394, AW367835, BE007375, AA188623, BE007385, N91822, BE007417, BE007383, BE007386, AW022443, H87038, AW238781, F09098, BF752965, AA832105, AW368954, AW368943, AA344658, AI500038, AI635645, AI382824, AI924708, BF327766, H87039, H48286, T67638, D25737, AI565186, AA344782, F04983, AA095952, AV749671, AA846992, F11435, AW877247, AW369597, BE907218, AW051197, BE007418, AI702073, BG249582, AI473536, BF525883, AL079963, AW983832, BG114012, AI281757, AI923370, AI241923, AL079960, AI538564, AI570807, BE047852, AI915291, AI624293, AI433157, BE392121, BF812960, AW163834, AA908294, AI335426, AI348777, AL037030, BF814453, AI251221, BF812938, AI922550, BF970652, AI678357, AL046618, BF812961, AI884318, BE826058, BE541267, BG166654, AI633125, AW026882, BF812936, AL046466, AW152182, AL039086, AI950664, AV741327, BF811804, AV715762, AV682468, AI698391, BG058150, AI868931, AI801325, AI500714, AV682326, BG029667, AI889189, AW051088, BE543089, BE544111, AI335208, BG113299, AI923989,

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HDTKS69	495	851859	1 - 1303	15 - 1317	AW976887, AW241409, AW403567, AW964903, AW470531, AW291973, AA761563, AW296680, BE855893, BE858613, AI476419, BF115895, AI298990, AI298992, AI924755, AI937015, AI307369, AI694490, AW297292, BF886279, BF377965, BF886270, BF445139, BE139195, BF888690, BF886264, AW631316, BF888646, BF886278, AV711730, BF377959, AI598112, BF377985, AI336892, BE669511, AW197707, BF886262, BF884957, BF888699, BF888645, BF886269, BF377962, BF377988, AI681415, BF377967, AI222929, BF886266, BF886274, BF377977, BF377955, BF886281, AV752210, AV752844, AA989234, AA349603, BF888692, Z46051, AA452428, AI681890, BF888701, BF438158, BE465280, AA452250, BF377956, BF888693, D61164, AA962297, BF377991, BF240861, T33053, H12108, AL536728, R41947, AA325625, BF377964, BF888703, AI468118, AI302325, AA096343, BF884959, Z41663, BF377958, and AL122044.
HE6CH89	496	852568	1 - 2419	15 - 2433	AL133779, AW961788, BF726698, W63676, BE046412, W63789, AA659693, BF114614, BE646183, W60959, AI951970, W94209, AW044233, BF668056, AW663548, W04957, AII39947, AA514302, BF084925, T91396, AA846232, H27231, AA789002, AA581966, AW129678, AA347970, H28581, N20018, AA249370, AA449282, AW188870, AA809643, AA295134, H75715, AA449227, BE841554, BF378732, T90114, BE841633, T84625, AA610150, BE710736, AI040666, AI279919, BF130410, AA526037, H75644, AI925869, BF687723, BE153177, AI925860, BE706664, BE706539, AI690750, AW362955, AI299663, BG035577, H61476, H59488, AA633424, AI299662, AA602906, AA347969, BF839249, and AA622801.
HDPGS20	497	852676	1 - 820	15 - 834	BE560117, BE545259, BE296330, BE728430, BG037034, BE783399, BE397114, BE267957, BE410734, BE270054, BE729999, BF529231, and AI003007.
HWBBZ12	498	852760	1 - 4195	15 - 4209	AL521810, AL521731, BE874635, AI307239, AW303301, AW951149, BF692324, BE645157, AV719105, AW965997, BE958390, AW511198, AA151800, N62802, AA280093, AL521809, AA769586, AI016311, AA190568, AI128102, AW592389, AA286941, BE467469, AI690591, AI417149, N93916, N35258, AI656458, AW819899, AA114171, N31408, AW057592, BE503040, BF217243, AI962336, AI652288, AI653042, AW501088, AW300374, AI798157, N35259, AL521730, H05662, BF511775, AI209166,

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HDPBI36	499	852845	1 - 598	15 - 612	BE140560, BG025607, BF038888, BG035065, BF510346, AU155348, AU155147, AW953423, W60080, BF700950, AA865478, N90291, BF349120, BE694433, AW450652, BE180648, AA993634, AW449519, AI806539, BE710391, AA351618, AW449522, BF874964, AI827626, AA904788, AK023383, and AL117600.
HMAEP64	500	852960	1 - 1135	15 - 1149	BG054851, BF439942, AI141684, BG008949, AA242853, BE677186, AI281834, BF433831, N50984, AA826047, AW014432, AA977801, AW770255, AA984041, T64272, AA994205, AA252172, AI361098, T64144, AW084330, AI280735, AA931748, BE146421, AW071613, R09320, AI990634, R09211, AA448980, AW388104, AI147841, AI198101, AW517751, AW238793, BF969846, AI627898, AU156992, AW074546, AW072130, AI394689, AI276023, AI457707, AI953242, AI539262, BE907440, BF984530, AI886594, AA761557, AI636788, AI274769, AI933785, AI613471, AW079334, AI539771, AW082532, BG178911, AI568132, AI624304, AL040011, AI627909, BG028962, BF792115, AI934147, D44958, AA947158, AI805688, AI432237, AI696626, BF828567, AI499960, AI554218, AW084097, AI365256, AI446405, AW264688, AI355779, AL036548, AI343038, AI272116, AI336506, AI254251, AW303238, AI889133, BE875407, BF054886, AW268290, AI963172, AW085786, AI249877, BF055737, AI537617, AW263569, AW118414, AI873638, AA150147, AI888621, AI357599, AI244380, AI625926, BE877316, BE874060, AW411412, BF904180, AI537837, AI554343, AI677983, AI471282, AI680498, AL043084, BF750875, AW410972, AI572717, AI620093, AV743631, AI539632, AW409931, BF913615, AW083804, AV709604, AI824557, AI627621, BE393551, BE964767, BF817746, AI473451, BF915316, BE613727, AI932949, AI580290, AI309306, AW104141, AW149876, AI539153, AI433611, BE783150, AW089275, AI677797, AI865931, BF925370, AW193841, AI678446, AA830821, AI245304, AI635367, N74355, AI418128, AL046463, BF924884, AI499986, AW131954, AW248417, AI859644, AI499463,

AI866573, AA835966, AI802554, BF814761, AA806719, AW168693, AI624529,
AI859464, AW131952, AW301381, AI567238, AW089327, AI633306, AI475430,
AI521005, AI648502, AA493923, AI568138, AI537190, BF909758, AW129993,
AV733682, AI758512, AV756638, AI824360, AW022494, AW265004, AI674912,
AI801561, AW073898, AI802826, AI349017, AL037521, AW151847, BE965169,
AI611743, AW081866, BF811802, AV703599, AI537075, AI308035, AW268060,
AI240135, AW302973, AI800138, BE964981, BF339322, BG107564, AI335411,
AI866608, BE964700, AI432229, AI636619, AI565172, BG179295, BE974031, AI918397,
BE964645, AI537677, BF816042, AW029216, AW118477, BF868927, AW172723,
AW168709, AI862880, AI147686, AI318254, AI741926, BF814449, AI571699,
AW500379, AI886055, AI472536, AW082623, AW089006, AI446124, AW025279,
BG105342, AI358725, AB020598, AC004126, AK023577, AK000546, AK000450,
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AF215669, S77771, A18777, AK024747, U96683, AF205861, AL133072, AF188698,
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AL080159, AB034701, I89947, A08908, AK027204, AF185576, AL389935, AR038854,
AK000718, AF012536, AK026533, A65340, I26207, AB049900, AF207750, A08913,
U75370, A21103, AR000496, U39656, A08912, A08911, I89931, AB047248, AL389978,
AL133565, AF116602, U42031, I89934, AR087170, A08907, AK000137, L30117,
AJ301634, AR059958, S76508, AL031346, AC009484, AL389939, AF113689, X80340,
AL359600, AL137711, AF274348, AF274347, AL137476, Y08769, AF155148,
AK026408, AF162270, A65341, AB041801, AL162003, AL359583, AF000301,
AL137574, AK026627, AK025015, U00686, AF040751, AR070212, AK027200,
AB047869, AF090886, AF113676, AL133014, AL353625, AF159141, AL133645,
AK027164, AK025541, AF151109, AB048995, AL137641, AK026556, AK026462,
AR016469, AF003737, AF090934, X79812, AB050411, AB050534, AB051158,
AF217987, AK026947, AF047716, AK000753, S69510, AF119856, AL137558, X66975,
X93495, D55641, I22272, AF111112, D83989, AL359941, AF126247, AB048913,
AK026642, AB048919, AK000636, AL122098, AF106697, A08916, A93350, AF217982,
AF218023, AK025708, AX010492, AF155827, AF139986, AL096751, AF104032, I48979,
A92311, AK026464, Y16258, Y16257, E02756, Y16256, AF116646, Y11587, AF217966,
AL389983, AL049460, AK026452, AK025524, AL117440, AL122118, AF081197,
AF081195, I68732, AK024538, AF271350, AL050015, AF177336, AK026885, AF176651,
AK026045, AF225424, AF130100, AL353957, AF116649, AB047631, A08915, AL137273, U80742,
AF120268, AF130092, AL157479, AF116649, AB047631, A08915, AL137273, U80742,
AL049452, AK026551, AF208850, AK000647, X83508, E15569, I89944, AF113013,

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HTYSK68	501	852980	1 - 565	15 - 579	W76206, BE892371, AA045430, BG165714, BE067761, BE067599, AW604257, AW604258, AW608062, BG027832, BF082486, BE410601, BE621092, BF746863, F00707, AW183659, BE765320, AI005256, AW139829, AA526313, BE349541, AW972653, AU123291, AI769723, AW195597, BF921966, AI908211, AV709436, AV751309, A62731, and AK024219.
HDAAD50	502	852987	1 - 2278	15 - 2292	BF979868, AU139403, AI908467, BE889829, AW753110, AA534879, AI123433, BE566224, AI692197, BE542928, AW753090, AA767381, BF208045, BF794425, BF436983, BG164095, AW511053, AW969335, AI913281, AW955434, AI522156, AI670900, AV724704, BF000574, AW753089, BE501680, BF105238, AW275367, AI459401, N20936, AI623733, AI627242, AI371861, AU157976, N24391, AU149797, AA831674, AA835896, AA417729, AI356961, AI453036, N27804, AI078123, AI376171, AA480585, BE465586, AI674322, BF670952, AU157539, BE087582, AI817344, AI867897, H99142, BE889447, BF063321, AA825911, AA604689, AA504353, AI829860, AI638163, R16151, AI093185, AA602146, AW753088, AI025691, BF438954, AA173422, BF678657, H23392, AW183115, AI866985, N94845, AA782422, AA173512, N63526, AA393750, AA970899, N42975, AI202443, AI623734, H23281, W72180, AA779566, R15410, AA769362, R19830, R76511, AW235242, R44725, R45927, R76512, AA279923, AA361478, AA626869, AL040001, AI468946, AW769710, BF107251, Z21325, AW299412, AW119233, C00448, AI434293, AA809980, AF191838, AR016417, AF174536, AK002192, AF191839, and AF145705.
HNTNC03	503	853174	1 - 795	15 - 809	AI131253, BE067780, AW305082, AW237044, AA830100, AA421070, AA025511, AW993523, AI274853, N32443, R70354, AI685853, AW949793, AA420990, AW949794, N23738, R70353, N64804, AA115795, AA758003, AI393511, AI400593, AI421934, AI022207, AI419316, AI360871, AW661961, AW474531, AI094853, AI350949, AI668844, AW591521, AA398677, AI204113, AI083523, AW474490, AA625661, AA478577, AI147474, AW009344, AI264028, AI287600, AI745227, AA427956, AI361058, AW055024, AA639992, BF939863, AA677093, N34840, AA678281, AI086648, AI572140, N51463, AA056256, AA535085, AA627509, H79313, BG114657, N64760, AA393323, BF515805, BE857443, C01602, H10460, BF197896, H28024, R78391, AA570617, BF197888, R43355, AL537721, AW020489, AV712485, AA492446,

HCFNG65	504	853186	1 - 2669	15 - 2683	AL520019, AW965074, BF966803, BE907988, AU136803, AA292285, AW242897, AA481605, AW190410, AU154591, BF195973, AI636493, AU150382, BF334255, AA399187, AA490303, AI432407, AW003248, AW058097, AW613051, AL042324, AA490395, AI669436, AI057424, AU156517, AA648369, AA609423, AW779893, AI057419, AI823433, AA055975, AI754362, AW615173, W00815, AA740999, AI619960, AA056003, AW002199, BF756564, AW235192, AA832288, AA657864, AI368977, AI208560, BG030572, AI954427, AI184592, BF676092, AI888413, F06438, AA251676, AI470785, R53637, AI434370, H25490, R54220, AW452928, BE243536, N57953, R94036, H74165, BF963694, H90376, H48301, H06080, AA732759, AA824570, AA720892, AA251677, N69262, H60339, Z25257, R39030, AI188350, F04691, H25445, H96158, Z28877, R99995, AA363446, Z45827, AW804047, AW955093, AA353208, R14249, R51824, BG250874, AA344147, H63558, T80308, R24988, R93991, H91285, AA285259, AA649237, AA434029, BG166619, AA343843, AA702776, AA481540, T03777, AW013849, AA626078, AU136143, BF329847, AL096748, AK001882, and AK001721.
HLMMI85	505	853213	1 - 795	15 - 809	BE900784, BF794218, BF791795, AI885381, BF037238, BE901504, BE873362, BG248640, BE398146, AI568350, BF061125, BE263482, AI568355, AI760257, AW628438, AI292133, AA535203, AW249219, AII68147, AA243345, AI291016, AA977229, AA992604, AI003960, AA774418, AI682408, AI351526, AI857534, AA996147, AI628719, AA158984, AI720303, AI347727, AW248797, AI273824, AI620238, AA614444, AA243544, AII50104, AA872243, AW967798, AA903492, AA158624, AA649230, AI291548, BG059113, AI492665, AA025685, AA470812, AV741835, AI826219, AA025567, BF446078, BF435031, AA745181, BF445492, AI090436, R58607, T24632, BF057482, AI719645, AW952457, AW961037, AW945168, AW965144, AV658835, AW961463, AV651436, AV725055, AW020592, AV729439, AV708653, AW949453, AW951273, AV703042, AV727839, AV722222, AV721957, AV684417, AV708075, AV706987, AV693527, AV650024, AV707727, AV726605, AV703263, AV706775, AV707889, AV648430, AV727980, AV704934, AV705323, AI525653, AW022086, AW960579, AW953868, AW950438, AV725580, AV753074, AW966420, AI886206, AW021777, AW949477, AI557808, AW954384, AV704350, AW023863, AW952414, AW020328, AW953394, AW021178, AW963879, AW961253, AW963028, AW950220, AV688667, AW022826, AW963490, AW958647, AV654896,

AA715624, AA450037, AA371629, BG166418, AI086047, N90080, BF242820, R23200, AI659542, AA903186, R28390, Z38820, BE179664, BE179593, AI474240, AI471187, R39562, BF977226, N54391, N34906, AI990226, AA370525, AW750319, AA319158, AA503110, AA025818, AU131398, N76354, BF983209, R78390, N76168, D26067, and AC007246.

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HBGMZ39	506	853966	1 - 576	15 - 590	AI820661, AA989356, AI791493, AW972538, AI791282, AI732537, AI792053, AW207804, R72427, R22360, AA505927, R22019, R72474, and AC008537.
HHEIA70	507	854202	1 - 1684	15 - 1698	AU123924, AV712459, AV716178, AU133463, BG109543, BG254939, BE874698, BE881193, BG032497, AV713778, AV715623, BF699449, BG032394, BG256561, BF691904, BF765887, BF571543, BF211444, BE960612, BF789915, BE883523, BF701507, BE565565, BE566925, AV716400, BE568689, BF244455, BG180086, AA928757, BF244610, BE567236, AU154863, BE966666, BF197225, BF701085, AI041056, BF242863, BG119951, AA777023, AW605844, BF668812, AU155740, BE710106, BE170706, AI250804, AA133274, AW192753, AU157424, AI424047, AI339978, BF241568, AA076059, AU156139, BE780213, AU155997, AW297486, AI803258, AV758208, N95058, AI161155, AW236323, AW073491, BF241036, AA639357, AI817155, BF448506, AI309269, BE621573, AI061069, AW769318, BF240888, N91833, N92272, W31126, AA566096, AV722948, AW795229, AI159771, BF241569, BF572630, N57457, AA173423, R71558, R15750, AI350782, R81297, AW062991, T77623, AU157135, AA160358, T92895, BF512692, AW798549, AA612885, AA68182, BF213137, BF734616, AA649626, AA434223, AI192011, BF130714, AA864518, AW169366, BF795618, BE620006, BF241417, BE261280, BE621158, AA991504, BE905799, R69368, AI471217, AV750427, BF924747, N51436, AA173513, BE622550, BE965818, AI985930, BE397078, AW798551, AI280636, AA304806, D59419, D59418, BF239224, AI024052, AI925359, BG256626, D63079, BG105905, AA092898, BF247817, N29513, BE278555, AA812364, BE542633, AI886982, BE834067, R69369, AW503504, BE870476, R71504, AI471893, BE302362, T92985, W19525, W24451, AA283287, BF900198, BE872795, AA129670, BE931171, BG116466, BF570724, R81190, AI783968, BF933830, BE090319, BE150855, AA483073, AW969701, BF665373, AW627449, H80761, AA076155, BE163597, BF352779, AA090537, BE619343, H80760, H79112, BF691268, AU138019, AX011687, AK001226, AK002059, AF208851, and AC002044.

HNTNA78	508	1 - 1568	15 - 1582	AI377951, AL521476, BF571396, BF690972, BG168844, BF576614, BG168927, AA478899, BF692249, AI970420, BF838384, AA478780, AI522149, BF571271, AA758425, N28525, AW956237, AI954716, AW197154, BF541232, BF838382, BF687607, AI631753, AI829079, AI765476, H99846, R56161, AW274419, AI371713, AI951909, AW769338, BF516230, BF680632, H19109, AI932682, AI138219, AI925973, AI956119, AI301748, AI378559, AI080154, AI755080, BF000829, H05933, AA031313, AA736498, AW090099, AA852791, AA852790, T07303, AA928061, R55988, AI699043, AI087918, AI468315, AI469137, R56048, AW297359, AW749818, AA248855, AW517996, Z38380, BE938071, BF091711, AI760228, R55989, R57425, AC005082, and AF218026.
HOVAN91	509	1 - 1310	15 - 1324	BE392523, BF341045, BF338150, BE747964, BF526954, AA293895, BE393803, N78405, BF345041, Z43548, R15203, F11332, F11336, AA324381, AI457481, AI458684, AL519858, BF341518, AL519859, AU152841, AI291292, AI458990, AW139401, BF934189, AA928861, AW139402, and AK001610.
HLYER32	510	1 - 940	15 - 954	AA029331, AW664067, BE503813, AI186667, BF432974, BE503819, AI690124, BF064018, AW300343, AW813946, AI829341, AI802185, AI797180, AI700514, AA807670, BE466953, AI361710, AW975528, AA962421, BF925974, AA972769, AA834591, AI631229, AA931661, AW664640, BE041581, Z28658, Z24936, AW963973, AA077292, AI186729, T87682, T87683, AW885786, AA029330, AW885825, AA169324, BF332264, AA225538, AB032973, and AC004918.
HFPEL47	511	1 - 719	15 - 733	BE277823, AF284435, AF181284, AI243874, and AL031575.
HTPIJ41	512	1 - 2576	15 - 2590	AL533804, AU138032, AL533803, AV717452, AI741654, AW952397, BF309916, BG114820, AA476815, BF112198, BG036318, BE969641, BE302254, AA886870, BE390586, BE150546, BE327418, AW965860, AV725911, BE150425, AW770112, BF577149, BE895478, AW748782, AV729676, AI620282, AA282484, AA604615, AI199277, BE018684, AI937434, BE044645, BE439716, AV717152, AW606003, BF000782, BE391373, AI333984, AA653690, AI382103, AII23740, AU157432, AI768399, AA934911, W23609, AI744082, AI289871, BE327410, AA418277, AI797540, AI367419, AI367400, BE939455, BF678360, AI580127, BF223908, AA136349, BE939458, AA885898, AA305525, AI285587, AA235117, AI800539, AA125938, AA128334, BE939482, BE939480, BE090130, AA652315, AA961059, AA278483, BF735246, BF735076, BF735708, R81196, AW294564, BF734915, AA974222, AA707588, BF735816, H86503, W69866, AA707611, AV655281, BF735665, AI480419, BF735400, BF734911, AI452703, BE465470, BF735409, W69760, AW664874, BF735815, BF735169, H06098, BE765065, BF735152, AA869002, AI583185, AA487915, AA136262, M85357, H97382, BE764944, AA456645, BF735655, H97460, BF735393, BF735492, D79791, BF674143, BF734950, AA488030, AW372887, AA127061, BE764945, H05805,

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HNTNC49	513	855013	1 - 1287	15 - 1301	BE798823, BG034154, BE409853, BG258958, BE535519, BE869600, BG034115, BF943604, AL535475, BE159229, BG248396, AW249265, BF878999, BF348332, BG258481, AW958840, AA312273, AA181796, BF803663, BF994234, BF973327, AL517246, BF346353, AA357585, BF874508, BE536309, BF348676, BG180415, BE613919, BF685495, AU125754, AL522846, BE868901, BF342484, AA377891, AW964034, BE159180, BE514241, BF762748, BF034118, BF896264, BE797287, BF830251, AA779390, BF920086, BF763793, AF099100, AK022719, and AL133589.
HLTCO94	514	855239	1 - 600	15 - 614	AL536841, BE735678, BE618087, BE737509, BE900924, AA481191, BE252257, BG165549, BE871566, BE868205, AA326771, AW239445, BE535298, AW603822, AW841966, AW603835, AA249452, BF317226, W40382, BE539334, BF026164, BE908485, AW157388, AA074385, AW157140, AA076522, W40381, AB041581, and AC010000.
HBIMT77	515	855274	1 - 729	15 - 743	BE407428, BE729546, BE246285, BE245964, BE244779, and AV723921.
HTLIV70	516	855314	1 - 1791	15 - 1805	U66688, AI420480, BE262351, AI656922, BE312023, BE266429, BF973695, AW958847, AI168486, BF206779, BF312540, AA116009, AV647766, AA116008, AW374319, AA349960, R89046, AI083583, R89692, AW575734, BF206363, H67248, AI680780, AW015363, N22021, AI825488, AA719140, AA357634, AA077165, BF315974, AW960651, AI989486, AA309016, AA524463, H49149, AU141037, BE247057, AA190206, AA585380, AW291827, AK002018, AK024401, and AF047690.
HFADF33	517	855433	1 - 624	15 - 638	AW964861, AI199113, T03555, AL134750, AW964857, BF941466, T33390, AW071846, AI372071, AI000085, AI341994, AI290858, H20140, AA490324, AA831108, AA761080, AA831270, T15766, AI028648, T15377, AI768928, AA504496, AA436241, AA831107, AW006092, AA810105, T33661, AI937561, AA909438, H45997, AA961978, R59510, T17110, H51407, H16747, T33279, AA903891, H44071, AW418599, AA490428, H40313, F02637, H21621, H82614, H11585, AA719838, R39306, AI885029, AA350201, AA720515, R41852, BF109022, AI809976, H09947, AI694671, T16218, T15842, R38929, F04745, R40798, R46843, AI971591, AA831269, R43111, R44115, AI206924, R44343, R46040, H40036, AA765359, R44764, R43227, AI202064, AI422537, T15867, R55715, R48930, R43364, AA761663, R37457, AV751274, BF947642, AA448314, AA447622,

HETJQ73	518	855453	1 - 2259	15 - 2273	AA324968, AI350426, AW183425, AA448451, H40758, AA907751, AA077267, AC006454, AF131776, and X63615. BE898276, BE740864, BE297799, BE253799, BG112280, BG036183, BF973037, BE395589, BE560491, BF673132, BG164463, AA884494, BE778924, BF978036, BE274205, BF698558, BE999993, BE737910, BF211746, BG165127, BF063578, BE738495, BF211831, AI654040, BE742425, BF031179, AI469999, AA287791, AI768296, AI554076, BF002403, BE299277, AW665618, BF978383, BF541222, BE671490, BF571881, AA918122, AI334995, BE565502, BF109294, AW316843, BF664615, BF028462, AA283819, AI190721, AA885304, AA947288, BE139521, AI376080, AW515939, AW294431, AI701521, AW572456, BF978230, N70879, AI079991, AA828548, AI924590, W28275, N54968, AA286996, AA715376, BE894981, AA283121, AI768811, AV656854, BE738367, N24988, AI867360, BE737736, AA136616, AI694656, AA156825, AW264839, AA136536, BE551257, BF572137, AA935936, AI739519, AA287059, AI635716, C05729, AA973142, AA910701, AI018315, AV692078, AA136748, AA907617, AV657226, AA284221, T51661, AI094457, BE957995, BF817789, AW976780, C03474, AI419599, AW977142, AW517648, BF063810, BF107009, AA136779, BE893461, N75944, AI911943, R24221, AA905142, AI880440, AI827565, D20239, AA749381, BF244819, AA223546, R24222, W05176, BE000179, R85502, AA126686, BF132615, AA731933, AA814421, AI500107, AI738476, BF594359, BE964686, N36495, AI570056, BG167830, AI868680, AI538564, AI590227, BF033066, BF752997, BF811804, W45039, AI434969, N25033, BG163646, BF764528, AI633125, AW073270, BF766531, BF669151, AL523067, BG122005, AI701097, AI678446, AI582932, AI683173, AI423733, AI698391, AI568293, AI884318, AI863241, T69241, AI915291, AI810544, AA019328, AW168452, BF215638, AI473536, AI633000, AL514473, AI491775, AW302960, AI579901, BF812961, AI590043, AL121653, AL133245, AL117587, AX015915, AF130056, AR038854, Z13966, I80062, AF273680, A52184, X68497, A77033, A77035, I89947, AK027209, X99971, AC003001, S69381, AJ001202, AK026462, AB040710, AF124728, AF060555, and L35261.
HAGGV44	519	855714	1 - 2281	15 - 2295	AW005818, BE327107, AW005636, AA564863, BF110826, AI806133, AI521912, AW148943, AI436308, AI720136, AI188425, H41336, AI273679, AA768242, AI150633, AI752510, AA424667, AW510795, AI202140, AA255824, AA761094, AA701863, AI720247, AA233858, AI807720, AW090104, AI079837, AW474094, R67162, AA252876, AW892362, AI473204, R61085, AW449831, AI922494, N31216, BE219459, AW206913, BE674199, T17032, AI287598, N77570, AI630970, BE567461, BE550777, T23835, BF434275, AA639314, AA232776, AI347290, Z42298, BE503825, H41583, AI493754, AW960534, AA303374, AA232776, AI347290, R96988, N86020, AA252898, AI056208, R96932, AA256521, AA424570, AI902687, AI333641, AI400503

HTTDM15	520	1 - 812	15 - 826	BE844088, H22375, H52758, BE669588, AI797149, AI078680, BF762000, AI143375, AK000022, AL096808, and AA585335.
HADCY76	521	1 - 1771	15 - 1785	BF314540, AU125474, BE734208, BE746984, BF575571, BE883532, H66950, BE092409, AW190087, AW896216, AI910194, AA079565, BE699057, BE186054, BE876022, AB007866, and AL109823.
HDPXW75	522	1 - 536	15 - 550	W94262, AI057055, W78912, BF574085, and R12644.
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HMCDC50	523	1 - 625	15 - 639	AW340329, AW977501, BF679228, AA628140, AA867981, AA748304, AW366881, and AB014574.
HMADZ55	524	1 - 729	15 - 743	AL523642, AL529465, AU137690, BE069366, AW838306, AW177706, BE253683, and AK002022.
HTXNB76	525	1 - 1155	15 - 1169	AI064825, AI378126, BE669502, AA968451, AA769573, BF975690, AI741188, AI474001, AW499822, AI679047, N59572, AA811320, W01226, AI718603, AA832363, AI686801, AW517151, AI439792, AI439886, AA768288, AI439073, AA594657, T91080, AW593164, AA729025, H72219, AA769262, BF056532, AA737614, AW976937, AI634143, D25757, H75961, BE217848, BE247109, D19927, AW243878, AI640370, AI611810, AI570140, AW103362, AW023871, AI863382, AI479292, AI244647, AI472536, AI521005, AI687166, BE269510, BF791796, AW079334, AW130356, AI371265, AI580208, AV758252, AW409914, AI633225, AV744830, AI538564, AW263804, BE880892, BE906283, AI097084, AI336565, AI284515, AI343140, AI631216, AI251221, AW827206, AI270754, AI224373, BF680133, BG105381, AI538116, AI612885, AI348897, BF895218, BE745879, AI648494, AW161202, AI524654, BG026746, AA749184, AI688848, AI538270, BG257681, AI815807, AI590423, AI890907, AI804505, AW163834, AI565932, AI921281, BF814357, AI631390, AI690813, BE909551, BF811802, BG001293, AW151451, AA939199, AI609069, AI571699, BE547010, AW084914, AI963051, N75779, AI702301, AI306613, AL041230, AA129236, R41605, BF925370, AI926593, AW075382, AI344819, AI313320, AI468959, AI679959, AI310920, H89138, AI307503, AV703177, AI373622, BF339548, AI263584, AI309431, AI591310, AW075305, AI344911, AI612750, AI307507, AV681872, AI686808, AI612107, BE897632, AI334889, AI311440, AI524179, AI312398, H50168, BF828567, AI680139, AI829990, AW029457, AI249946, AW058275, BE883591, AI656270, BG254755, AA903145, AI918554, AI498067, BF342153, AI676003, BG027653, BE875959, AI416961, N99092, AI367364, AW104141, AW083168, AW195253, BF904189, AI868204, AI818065, AI954095, BG181136, BF904192, AI446248, BG036614, AV728304, AI267185, AI954095, BG181136, BF904192, AI446248, BG036614, AI702527, N25033, AI879377, AI889147, BE963777, AL048644, AI473471, AI950862,

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HLQGX48	527	1 - 1466	856704	15 - 1480		
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H2CBH17	528	856745	1 - 2400	15 - 2414	AL535612, AL528352, AL529078, BF984476, BG031674, BG164923, AI816816, AI739004, BE673438, BE887500, BF530680, BG166586, Z78323, BG110470, AI632786, BG169003, BE614564, BF341033, BF593083, AV713551, BE175655, AI478790, BE788863, BG034070, AI921884, BF576981, BF031364, AA046908, AW952425, BE884923, BE535946, AI700235, BF508929, BG106575, AW581575, AA628768, AI800049, BF132189, BF063645, BE465748, BE618157, AA877858, BE618737, BE536612, BE883703, AW386704, AA928423, AA190629, BE540168, AI207510, AI375581, BE466078, BE773664, AA948368, AII85073, BF035981, BE536026, AI860126, AI815682, AII91336, AA534765, BE175777, AA476488, AA046419, BE773939, AW022072, AA282062, BE696484, N39225, AA041386, AA306627, T65177, AV706244, AI879983, AI720921, T65110, BF213807, AII43153, AAS34439, AW404247, R60095, AW235882, AW023142, AA970486, T19337, BF351443, AA449159, AA639879, R60033, BE773649, Z43474, BE696481, T34427, F11834, AW952273, AA946986, BE836524, BE773632, BE168435, H72634, AA307487, AW665659, T26967, AV762970, Z42711, BF858561, BF858592, BF858562, AW407068, BF858577, BF858590, AV689558, AI984207, AI678009, AI744784, N55730, Z44175, BE827450, F11018, AI689373, BE716327, AA328209, AI984218, AA354757, F08270, H72635, BE041498, Z39551, T30561, BF031778, AI589953, AI002843, BF373506, AW262881, AA828237, F02192, AI351242, AA191158, AA102729, T34536, AA324937, AII43361, AA551155, AW961370, BE297894, T32468, BF857134, AA041426, AV660746, AI090947, T32541, AA102728, AI400907, AV661503, F04498, N55981, BG153054, AW386701, AW176735, AW176736, AA287311, AI652718, AW579838, AI220286, BF577106, BE773607, AI202522, AI031820, BE963167, BG110249, BE612549, AV699211, AV708834, BF342377, and AK000759.
HLQEF25	529	856748	1 - 1041	15 - 1055	BF695330, BF577065, BF694710, BF693790, BF790324, BF575003, AA948096, AI810387, AV719315, AA182396, AA182918, AA182923, AV720180, AII90465, AA479148, AA993691, AV646291, AI580838, AA176443, AI084581, AA178889, AV682627, AA181509, F34953, H59400, Z25287, Z25389, H60056, AA479147, H54086, T98798, AA181502, Z28893, AI701328, T99107, F00368, F26701, AA181515, F35827, AI243087, F00348, BF671671, BF826947, and AV659719.

HTOHA37	530	856923	1 - 1082	15 - 1096	AL517490, AL530029, BF980012, BF968398, BE395251, BF529065, BF688249, AW961334, BF689158, BE869082, AA436974, AW301595, BF433050, BF433932, BF446695, AL517491, AI627769, BE300486, AI148986, AW295167, BE673725, BF244755, AI095891, AI338889, AL528568, AA228704, AW300645, AA938998, BE798985, AW514097, AL527696, AW290959, AI584103, W51788, AA631562, BE535497, T30453, AA593364, AA593259, D20778, AL530030, AW148377, AL522339, BE795128, T19553, AW998155, BE379035, AW998152, AI371361, BE274347, BE158361, BF315941, AA228703, BE174179, T19552, BE799698, BF206096, BE261163, BF206413, BF207220, BE262884, AW156939, AI696364, BF314126, BE274351, BE727781, BE274079, BF315253, BF311506, AL522338, BE312342, BE386675, BE617584, AK025729, AF139828, AF132951, AC008910, and AF143952.
HLHAW26	531	856982	1 - 676	15 - 690	AW966138, AA334784, AA359470, and U96409.
HKAAZ46	532	857100	1 - 779	15 - 793	AL528377, AL526620, AL525016, AU125634, BE541448, AW403508, BE781367, AW192307, BE866614, AU131672, AK022700, AF102851, and AL049636.
HAQAF12	533	857311	1 - 790	15 - 804	AU136448, BE903793, BE903753, BG176915, AA586576, BE831774, AI087937, BE831773, AI093911, AA813680, AI188578, BF997808, T90345, AI541326, AI540870, AW135361, R22633, AW135913, AI651792, R22632, BF837016, BG001236, BE774095, BF988360, BE067056, BE774105, BF996551, BF993353, and AK001898.
HTXEX35	534	857404	1 - 974	15 - 988	BE297624, AW861509, AA635033, AW295816, BE271022, AA086486, BF311840, AA345490, AA452442, AA150077, T89360, BE910434, AI090051, BE270837, BE513565, AA565672, C17985, AA574147, AW953005, AA345045, AW246828, BE502458, AV701650, T83387, AI188232, BF891007, T81575, R54455, AW197716, BF366833, BE082767, AW082895, R44834, T84125, AK026088, AB040924, AK025801, AK025357, and AF157327.
HE8TE64	535	857478	1 - 818	15 - 832	BG260560, T77601, F13022, BE819486, AW176702, R29135, BG033797, and AB018322.
HL3AC38	536	857623	1 - 1151	15 - 1165	BF690273, BE747012, BE747012, BE689728, BG248343, BG035837, BE621181, BE744990, BG258252, BF316560, BG030079, BE410349, BG024606, AW409922, BG180843, BE314795, BE387681, AU129413, BE742504, BG222368, BE271515, BE909811, AU127513, AW150215, BE384233, AI829709, AI268295, AI379827, AA442815, AU151535, BE621854, AW404090, AI203710, BE858149, AI246732, AW088503, AA083573, T08067, AI142394, AI076760, T78227, AA626189, AW952606, BG122489, AA610734, AI628869, T31972, AA730146, AI250915, BE778414, Z39519, AW407185, BG036993, W85819, Z42081, N56151, AA446370, BF967860, R37876, AA583648, R37875, AW385406, BF922693, Z43439, AK023015, AF053628, AC005041, and AC007306.
HMUAO31	537	857664	1 - 942	15 - 956	AL523893, AL532371, AL528047, AL514988, AL536797, AL517512, AL526381, AL518934, AL530464, BF974928, BE792751, AL532291, BE794552, BE796681,

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HHAWD33	538	857697	1 - 1181	15 - 1195	AL520868, BF027000, AU143258, BF027048, BF026920, BE561485, BF027349, BE905983, BF033256, BF528140, BE870220, BF797577, BF794153, BG249297, AU127476, BE908190, AL520867, BF975211, BE739614, BF213004, AW960659, BF215875, BF218077, BE741921, AW602198, AA082654, BE792922, AW673689, BE792117, AW609584, BG032420, AW957421, AU118175, AV722650, AI632244, AI973067, AA171541, AV762777, AV740104, AA259077, AW675298, AI970197, BG256593, W47299, AI566084, AW889818, BE856364, AI970604, BE622440, BF795187, AA171510, AV737260, AW960661, W27244, AI186139, AA974285, BG250940, R63104, AW973647, AI393821, AW963194, AV761390, W46286, BE958292, T92848, AI801940, AA076964, W47166, N35537, AA377718, BF243852, AW139836, AI954760, AI968036, BF976012, AI621120, AA632217, AI638878, BE890724, AA258232, BF873993, AW293111, R63062, BF332291, AA554669, AI674530, AA932787, BF696408, BE087526, AW374135, AA323229, W05749, AW881901, AI560413, AI763145, W33065, AI522240, AW966291, BF437380, T80554, AI948883, W38887, AI525275, AW843228, BE068262, AI289392, AI400800, BE739151, T32536, AK022822, AF161384, AK002212, AF161385, AK000991, and Z61305.
HTZMB08	539	857723	1 - 390	15 - 404	Z22738.
HJBCE86	540	857743	1 - 1879	15 - 1893	BE741368, BG256289, BG113536, BF033848, BE898310, BE870809, BG167366, AA311866, AW969023, BE167520, AW814056, AW818350, BF825716, AI628496, AA504370, AW962851, W92916, BF062604, W93241, BF223494, AA377641, T87379, AA558693, BF816509, T79835, H05207, BF370823, AW956487, T84399, BE396475, AI202345, AI927617, AA504112, AA219564, AW875767, AW875928, BF969522, R94015, BF987109, AW440068, BE926223, T90221, and AK026976.
HFPCK56	541	857809	1 - 1929	15 - 1943	BE739833, AV751551, BE539375, BE619356, BE879961, AA012925, AA418407, AW028084, BF061035, AI690904, AI949671, AA449061, BE219361, AI955218, AA772167, AW771435, BG122658, BG056669, AI305287, AW952787, AI039957,

					Sequences
HAPSP72	542	857844	1 - 790	15 - 804	AW373177, BE440106, BF344446, AI796800, AI421026, AA037175, BE857334, AI689738, AI680796, BF001323, AI360089, BF438532, AI568970, N56916, AA418504, AA410416, BE797251, AA976077, AW299760, AI948837, BF223290, AI925315, AI744545, H22687, AI560863, AA931566, AI801467, AW373172, AI307790, N33168, AI620925, AI685502, BE876258, AII86166, BE545371, H22670, N44951, AW589991, AA772572, AI094972, N39575, AA351859, AW026324, AA861181, W27237, AA469378, AI049895, AA449773, AA402063, AA937530, AW803238, H96974, BE878083, AA938412, AA151221, BF907727, AI311559, AA351860, AW028003, AW079992, AI276817, W32509, AW139343, AI888644, AW130580, AA044269, AA410273, AA993422, AA687549, AI813495, W27206, AW373182, BF941191, AA340324, AI143750, H14486, R53630, AI370443, R48542, AA151220, AI271975, AI860157, R12193, AA321771, W93548, AW593928, AI140110, R62328, BF941785, AW275061, W32606, AI611136, AA398924, T66931, AW138501, AA758353, R48627, AA991280, AI581671, AA349145, N59828, R96451, BF527602, H04226, AW515323, AA991278, AI918973, R96452, AI687472, AI674456, AA338948, BF747204, AI985395, AA142905, AI268792, H27505, R12929, AI280425, AI370507, T83253, W27541, BE719110, AI961564, AA410417, AI284737, T90723, R51963, H27578, T66932, AI880036, AA338947, AA847693, AA364215, T49336, AA069380, AA026556, BE939130, BE538557, BF818515, D54538, AI360057, AI351186, AA044169, H02921, AW138557, R62327, W96350, AW118418, AI198091, T10481, BF507638, AI424187, AA847337, N72776, AI335238, AI873143, AA436364, BF735896, AI682149, AI868856, AI419753, AI472343, T49337, AI394598, BE002485, N46721, AA652885, AI810464, R39917, AI927142, BE787445, AA069327, BE622776, AI078649, BE620017, T11055, AI564318, BF987031, AX015375, AL162074, AB042237, and AF099664.
HACBM44	543	857913	1 - 478	15 - 492	AA883971, AA279963, R72577, AW407668, BG022230, AV653067, AV734755, AI423283, AI080765, H39710, BE894063, AV743087, BE089346, and AF090899.
HLTEO24	544	857964	1 - 579	15 - 593	BF894434, AA772839, BE613856, AA070022, BG257837, BF683728, BE182197, AW816423, BE514232, BE269045, BE561837, BE297684, BE268536, BF686266, BE561914, BF348341, BF900754, BE270716, BE514301, BF902815, BE269031, BG035835, and BE889023.
HHFJP51	545	857977	1 - 436	15 - 450	D78845.
HHFLL87	546	858001	1 - 1977	15 - 1991	BE730079, BF530314, BF338153, BE728474, BE467496, AV724172, BE703447, BE703444, BF967936, BE703446, BE703288, BE703411, BE703243, BE703287, BE703417, BE727145, BE276336, BE703324, BE703400, BE703310, AI814505, AA057243, BE703200, BE703244, BE703269, BE703236, BE703479, BE703326, BE703356, BE256491, BE703332, BE703331, BE410506, BE703225, AA719313,

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BE670970, AI025014, BE670130, BE703277, BE703364, AW953988, AW904343,
BF931510, AW604323, W92282, BE703272, BE703402, BE703336, BE703289,
AI797104, AI368765, BE858615, T34894, AI190953, BF920729, AI417195, AA759265,
W26202, AI459793, AA719557, AA015807, AI041398, AA021416, BE703344,
BE703226, BE703321, BF931506, AA443248, H40581, AI885131, BF807028, AA046921,
BF948531, BE857333, AI085643, AA046453, AA788914, BE045219, W27034, AI076384,
W27614, BE700982, W27321, BF931009, BF948179, AA719655, BF899062, BF920283,
BF364693, AI306509, BE348520, BE045244, W15183, AA443210, AW015179,
BF822310, BE277415, H30618, BF364694, AA046467, BF931012, H30292, AA814559,
N58834, H38989, AA057521, H46686, BF948173, BE045226, BE703410, AI457677,
W39637, AI081726, AI961673, H46335, BF931512, H85817, BF804437, AA018314,
AI797336, BF948524, BF948482, AW387092, R46308, BF807112, BF588479, AV707740,
H86430, BF948142, W28790, H28098, AI566805, AA364376, BF931503, H81818,
AI359186, AA019621, H92837, H49984, H41499, H85824, AW661828, AI936563,
BE387789, AA857520, AA384821, AA016108, W22944, H50026, BE221046, H86229,
BE766636, BG222840, BF808801, AI286075, N57572, AI368633, AI368634, BF839378,
H46685, BF822306, AI244368, H40833, BF364677, AA069459, AA018171, R54956,
Z40616, BF967140, H81819, Z44833, H41613, AI421538, BF960312, W92465, BF960305,
H38426, AA337641, W15451, AA059271, AA364819, BF960302, AI554760, AA021417,
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N75251, BF512150, C20695, AI860628, AA364065, AA412417, T34762, AW905446,
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BF948541, AW071980, BF059309, BF745933, AA015808, AA971878, BG055312,
BF933229, AA782828, AA758433, AW905449, BF002025, AA873143, AA339033,
AA059227, AA351091, H37786, AA016051, T31938, AA019659, BF090230, R46212,
BF931501, H85354, T34932, BF934200, AW1358 98, BF931006, AI887051, BF931007,
H86586, BF931504, H86090, BF967882, AI633477, BF957864, AA322532, R88814,
N79281, H95912, BF364674, AI452993, H85357, AF093249, AF101054, AF100612,
U89715, AF081583, AF071000, AF101053, AF100613, AF000272, AF118562, AF081582,
AF071001, AF179306, E12580, AL049452, AB007812, E02221, AL110221, AF067728,
AX042059, X63162, AI010277, AF130077, U49434, S61953, U76419, AL117585,
AK025239, X93328, AL162004, AF130056, AL080060, AF017437, AK027081,
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AL080129, AC020581, AF119883, AB048974, AF130110, U92992, AK024545,
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AF013214, AF067790, A08909, AB016226, AK027116, Z82022, E12579, AI242859,
AL023657, AF015958, AL442082, A27171, I89947, AF111851, A08908, AF218005,

HCUDR30	547	858010	1 - 578	15 - 592	S77771, I48978, L04849, AL133067, L04852, AL122050, AL117587, AF090900, AF208850, AL389935, AF182215, AL122123, AK024622, AR070212, X89102, A08913, I17544, X93495, AB026995, AF118092, AX017991, AF132730, AF026124, A08912, AF188698, AK000206, AF267849, AJ012755, AF081197, AF081195, A08911, AF228740, A18777, A08907, AL133084, AF119878, AF242376, U83172, AK025356, AL137292, X81464, AK024978, AK000432, AF232009, AK025435, AF137367, S76508, AL353625, AK024570, AF321617, AF215669, AL050172, AB050533, AL133075, AF130099, J05277, U49908, L04859, AL359618, U35846, AF090943, AK025798, AF061795, AL117432, AF151685, X72889, AF167995, I89931, AF31409l, Y10655, AL122110, A41575, AF119899, X79812, AK026528, AF089818, AL133645, AJ299431, AF132676, AK025099, U90884, AF061836, AF116609, AK025414, AR083279, AF153205, AK025350, X84990, AF094480, AL122098, M27260, AF130068, AF124728, AB047631, AF199027, AF030513, AL133049, AL389982, AL137665, I89934, AR087170, AL133559, AL109672, AR009628, AF200464, AX020124, AR079032, AL110225, AL096728, U75378, AL050138, AR038854, AF169154, AF119337, A65340, A65341, AB041801, U57715, M30514, L30117, AK026613, AL080139, X54971, AL117440, AF081571, AR068466, AJ012582, AK025465, AF098162, AL137550, AF107018, AF095901, AC026431, AC006112, AC009484, AJ001838, AK027102, L10353, X99257, AL080146, AL137478, AL442083, AK025209, AF114818, AF106697, AK026494, AR060156, AF116646, AK027142, S82852, AF004162, X67813, AX001285, AX001279, Z97214, AL137476, A70386, AB050418, AK025378, AL136884, AL359941, AL133637, AK000418, AB047248, AF038847, AF217966, A90844, AB04888l, AK000074, AK027182, X52128, AK025119, AL390184, and N62154.
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HHFHI24	548	858020	1 - 627	15 - 641	AL133342.
HSIAI48	549	858030	1 - 598	15 - 612	
HHFBP47	550	858073	1 - 1051	15 - 1065	AA203115, AA001259, AW961743, H69425, H68732, AW341717, AA778598, AA346824, AA707336, AI632467, AL050350, and AC002464.
HKADE35	551	858104	1 - 830	15 - 844	BG119757, BG170168, BF307487, AU137041, AW583171, AI884713, AI761426, AW961739, AI816016, AA535378, BF684161, AI869337, AA131094, AI249699, AW614114, AI218746, BE295299, AI469925, AW961740, N79760, AA927285, AA902207, AI130718, AW882943, W07208, AA448078, W02262, AA115546, W72783, AA889154, BE940629, AI220570, R00154, R00155, BF434422, AW262887, AW450558,

				15 - 770	AA130970, BF822970, AI361955, W21211, AA115083, BE856483, AI361947, AA347763, N48234, D12320, AL035690, and AK001963.
HCFAW88	552	858107	1 - 756	15 - 770	AL533888, AL520318, AI951749, BE395042, BE251326, AI571803, AI021931, BE257270, AL530622, AW024940, AI023746, AA306490, AW295451, AI418206, AI240266, AI418223, BF216867, AW294426, AI343854, AI245358, AI767945, AA464683, AI350205, AV736738, AA977564, BF215223, W42796, AI301348, AW592778, AA974763, AA908999, AV740701, AI350678, N43024, AI037922, T67103, AA298928, AW190060, C14760, W42688, AA297690, T94475, AI478584, AW365898, AI656889, T62095, BF223309, AA868949, AI200903, N30921, AF063605, and AF161461.
HISCV20	553	858108	1 - 2725	15 - 2739	AL527328, AL527289, BG029721, BF115619, BE544694, AW964987, BF002108, BF002100, BF031529, BE788828, BF038066, AV694634, AW027782, BE785151, BG036326, BF031242, BF939550, BF382985, AA917321, AW977444, AA854957, AA521384, BF032638, AW466967, AW408024, BE789609, BE787439, AA844350, BE857617, BF242377, AA166975, AA913595, BE813914, BF841239, AA287827, AA418784, BF819991, AW996732, AI692485, AI276163, BE674010, BG167495, AW590272, AI129275, AI765667, BE738644, BE566867, AI311555, AI827288, AI097614, AA765231, AI968870, AA418730, AI192364, AI027867, AI744696, AV724655, BE041523, BE929880, AA233763, BE000998, BF438544, AI285236, AI056106, AA213557, AI167821, AI360036, AI289210, AA342122, N53400, AW339321, AW170226, AI148737, N49395, AI767688, AA714352, AA287828, AA233814, AI803036, AI074273, AW999094, AI026044, AI287887, AI422736, AA884204, AA639449, AA166822, AI088180, BF750463, AW001792, AI536562, BE544121, AI935282, BE464866, AA001688, R78283, BE546758, H00831, R78865, AW016550, AA709410, AW197325, AA844412, AA406278, H67197, AA788787, H67870, AA468799, AI721067, H87488, R62257, T90260, AI766944, AI968836, R68949, D78677, T69966, BE000702, R62149, H87419, W32207, H87489, AA788735, BF994640, T90701, R94757, AA577055, R78284, BE000676, AI028057, N49484, AA342123, R31934, R24151, AI920949, AI636210, AI769630, R79352, R31980, AI371532, AA767915, W32264, AI146580, AW241443, BE551963, AW241500, BF332740, AI568885, AI953137, BE001102, C01870, AI656647, N39270, AW997327, AA903048, AI655771, BE171980, AI277792, AA889512, BE814493, AA700794, AA404318, AI041427, AP002023, AP002022, AL049963, AB020970, and AB020969.
HHEUE88	554	858214	1 - 1337	15 - 1351	AL523779, AU131189, AUI33187, BE783561, BE867250, BF699945, BG037141, BG117680, AI739046, AW130603, AI695012, BE868966, AW405438, AA973733, T27227, AW575386, R44060, AA173346, R49395, BF436899, R35008, BE379331, H49151, R18946, AA347083, R14163, AI766126, BF447018, BG055004, AI421690,

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HHESR56	555	858221	1 - 403	15 - 417	AW190508, BE257879, BE276412, BE902633, BE241687, BF312731, BE874333, BF027542, BF528144, AA453537, BF205635, and U62317.
HHENU62	556	858281	1 - 564	15 - 578	BG104528, AA836271, AI741911, AI032698, BG261359, AI281113, AI191665, BE568580, AW135688, BE170003, N24155, AW189382, BE392213, BE936240, BE541341, AI263150, AL529082, BE169971, AI032904, AW373723, AW904359, BF792763, and AF148713.
HE2RG38	557	858353	1 - 1340	15 - 1354	AW026983, AI096371, AW978449, AI805266, BE671144, BF313094, BE675256, BE671545, BE313399, BF126007, AI813506, BF527842, BE261326, BG030121, AI814357, AA278622, BE018768, AI703092, AW583230, AA706326, BF433201, AA488980, AI022087, AW968974, AII22704, AI818809, AI222918, AW072442, AI275108, BF829851, AI159815, AW193443, AA292263, AI423425, AI144320, AI609781, AA485429, AW104920, AI272950, AA428327, AI334199, AI033680, AA022909, AI086031, AI804628, AW190837, BE383669, BE677447, BE676774, AW136424, BF940449, AA258336, AA844188, AI740853, AA485593, AI057476, AW139461, AA278619, BF836072, AA829838, AW409894, BF836066, AI831028, AI417028, AA040603, W79625, AA063603, AI568977, AA009977, AI566791, AW207462, AA489202, AW473862, BF836062, AA258500, BF870248, AA054223, BF801885, AI476664, AA022977, AI564834, W84629, AW193442, W79481, AA278946, AA811062, AI263269, BE772525, AA854136, AI244605, AI017828, BF804301, BF823633, AA488758, H10442, AA843762, H40417, H51352, AA018100, H50514, AI813689, BF057494, AA057616, AA854370, BF877350, AW382297, BF528516, AI349422, W84680, H45660, AW601952, AW576325, AW381714, BE843327, BF742078, AA428852, H40805, AA830623, H45601, AA705407, BE720180, BE832334, N93711, R90839, AA844116, R47803, BF756715, BF756782, BF944304, AA504224, AA768075, BE938371, BF326394, AW601824, BF088729, BE070423, BF438701, BF761729, W21098, AA047781, BE929287, AA890426, W42938, BF757566, AI824215, BE938291, AA729090, BF836067, BF758306, AA065147, AW411171, BE784516, BG261000, BF312239, BF568526, AA036685, AI424954, BF791888, and AC004528.
HCEVS49	558	858355	1 - 3096	15 - 3110	U69564, AL537837, BF237602, BE741712, BE313325, BF568110, BE740552, BE799632, BE740533, BE906531, BG029791, BF341878, AL527111, BF312690, BG036285, BE798874, BE294282, BF689430, BE384979, BF314883, BF038180, BG222518, BE336694, BE264037, BG033664, BF058080, AW085697, AW954669, AW088228, BE221256, BF307166, BE251705, BF204265, BE900626, BE300976, BF690377, AI815879, BG114609, AW615570, BF315806, AL079461, BE349448, BG056733, AW958270, BE298933, AI813540, AL038992, AW190842, BF340695, BG106308,

1300

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HKGBP90	559	858433	1 - 973	15 - 987	AU128527, BF796067, AL528220, BF239056, AA442422, AA479166, AI823507, AA479165, AU137156, AI217410, N31699, R00425, BE789559, BG177143, R10543, and AK001445.
HOELK66	560	858436	1 - 2304	15 - 2318	AU117405, AL530997, AL529169, AL135037, BE878842, AW955927, BE298245, AW960167, BE386483, BF593630, AI340318, BF727196, BE348748, AI436218, AW052084, BE222524, AW571483, AI352457, BE970217, AI984228, N41838, BE645325, AI340098, AA599198, AA418418, N51941, AA043809, AW182492, BF739941, AA890032, AI127842, AI702474, AI681103, AI744530, AI803215, AA705363, BE856644, AI090984, AW276355, AI080655, AW276410, AW105466, BE708316, AI277102, AI831903, AW089467, AW242791, AA626319, AU144241, BE464402, AU135117, AI261867, AA781551, BF196206, AW602876, AW275186, AI694852, AA678395, AA143320, BF593442, AA687211, AA417876, AI078241, AA969187, AA043660, BF900486, BF333655, AA336439, N24073, AU155838, AA309055, AA975959, BF433444, AA143356, AW935400, AA745787, BE090295, D79158, H73220, -F32584, H60361, H68701, AA418460, AI468726, F36314, AA143369, T32005, AW001819, H26566, Z24843, AI864215, T52171, AI582960, BE710302, N53726, H84814, AI346204, BF572525, AA143308, AI268878, AA482531, T52182, AA210898, AI348618, AA922607, AA845288, Z28591, BF570631, H59089, BE697157, BF309130, BE073872, AA728919, BE697091, AA330170, AI073396, BE694982, BF348762, H26565,

					Accession Numbers
					AW843892, AW796682, T52247, T52258, AA928517, H50220, BF132441, AK000917, and AB023218.
HHFMX34	561	858449	1 - 1278	15 - 1292	BE275378, BF791879, BG112790, BF968736, BG254462, BE275915, AW580665, BE263098, BE744965, BF973712, AI951844, AI697543, AA127398, BF063168, AI825828, C06390, AI744238, AI090282, AI498944, AW371122, AW371115, H95221, AA804499, AI394091, AI650279, AA419209, AA402808, AI086334, AA600979, W45242, AA419224, BF439274, H95222, AA402800, AW438677, AI092188, AA804612, BF772169, H41027, AI003494, AW044106, AA380652, AW958526, AI568586, BE930863, W42686, BE747861, AA618395, AW371126, AA554683, AA872598, BE062041, AI571424, AI702854, and AC068499.
HOUED48	562	858450	1 - 952	15 - 966	AL537074, BE733236, BF664002, BE734188, AL537980, BE541794, BF984256, BE278556, BG168068, AA621878, R16058, AL537073, R48625, BG118498, H06532, BE296427, BF915081, BF917935, T81623, W56243, BE929147, AI806997, AA279374, BE763432, AA531459, BF341872, AA279109, BF088660, AA279631, AI394672, AW087792, BE763399, AA767321, BG163730, BF526041, AA804782, BE833009, AI123992, AX035942, AF134404, AF139813, AC004228, AC003025, AC004770, AB041560, and T66644.
HHBBI26	563	858451	1 - 1078	15 - 1092	AL537073, BG118498, AW005365, BG163730, AI133555, AW518845, BG231597, AA814375, AI419315, AI830935, AA642405, AA642379, AA262103, AI421947, AI886741, AW080967, AI088702, AW337792, AW769910, AW303866, AI085696, AW264721, AW263587, AI279180, AA731885, BG168068, AA807076, BF341872, AI375824, H06474, AA827586, AI127474, BF445799, W56323, BF526041, BG055791, AA279631, AA340771, R16057, BG028267, AI140643, AI523650, AA825264, AI400549, BF915081, AI755187, AI216692, BF917935, AI364162, BF886501, AI798264, AA531459, AA886229, AA279632, AA410667, AA730214, AA235582, AI784277, BE763432, C01213, AW273612, M91491, BE763399, AI277133, AI039041, AI052391, BF088660, AA621878, BF835624, BE833009, W56243, AL537074, AW963071, AW951748, AW953042, AW955684, AV692622, AV646990, AW959213, AW957665, AV645836, AV709607, AV652826, AW955967, AV704757, AW955639, AV697308, AV690866, AV707380, AV727361, AV709334, AW958059, AV657500, AW957944, AV646724, AV705873, AW965555, AW958040, AV696219, AV708726, AI557707, AV686516, AC004770, AF139813, AC003025, AC004228, AF134404, AX035942, AB041560, AB021980, AF126798, AF309557, and T66643.
HHAUZ72	564	858492	1 - 659	15 - 673	AU141383, BE537667, BF359516, AW166235, Z43858, AK000399, AL355103, and AK023885.
HWMAM41	565	858536	1 - 1598	15 - 1612	AL520657, AL520658, AL522597, BE732295, BE790785, BE792835, BG104235, BE899593, BG248527, BF529516, BF128722, BF207081, BE797840, AV681522,

BE548729, AA034095, BE279990, BE262937, BE560958, AA099014, BF683179,
BF149380, BE409895, AA443460, AA521261, BF149417, BF972266, BG231704,
BF380466, AV708717, ALS22596, AI601258, AI922591, BE559954, AI568423,
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N56989, AA156490, AI751520, AI362844, AI092927, AI885624, AI554676, AA443342,
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H23879, N36737, AA887768, W01353, AA420615, AA102403, AA099091, AA055421,
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AI474699, AI537643, AW983691, AI815232, AI866691, AI801325, AI500523, BF812438,
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HOHBO69	573	858909	1 - 364	15 - 378	AW630180, BF132395, BE619018, AI752163, AI752218, N24399, AA853686, and AF170702.
HBJHY72	574	858921	1 - 915	15 - 929	BF222613, BF941410, AW275961, AI686347, AU151359, AU151569, AU150662, AV720613, AW377892, BG122948, AW272610, AU151393, BF223195, BG057268, AI942440, AW874425, AI949454, AI655342, AA156549, AI655418, AI651318, AI859622, AI859617, AA954124, AI916986, AA424182, AI652842, AA496259, AA424148, W88540, AI580494, AA074960, W89109, AA280900, AA618034, AI206332, AA974228, AI338824, AA074858, AI357321, AI076443, BE933553, BE091175, AI241952, AI989578, M78676, BF941418, AI766753, AA565427, T89641, AU128364, AW499904, AW499911, Z41191, BE708873, AW080116, AI350462, AL040388, R41201, AV647200, C05973, BE544316, AW978609, BE263591, AI816939, AA098874, AI653947, AA029119, AU119473, AA463387, AA522876, AA379162, AA098873, AK022906, AB037850, AL117434, and AK000668.
HWEAD78	575	858922	1 - 2346	15 - 2360	AU119473, BE072346, AU128364, AW499904, AW499911, BE161468, BE263591, BE54316, BF241478, AU129185, AV729276, H27254, AV725346, BE743904, AA379162, AL040387, AW992595, BE933004, BE939983, AB037850, and AK022906.
HFIBK06	576	858956	1 - 1199.	15 - 1213	AL537184, AL523750, AL520348, AU122788, BE797283, BE887064, BE783716, AU131787, BE887275, BG249844, BF219702, BE889304, AW247014, AU135592, BF347062, BE280543, BG113772, BE314953, BF809145, AA308737, BE740470, AI907235, BE279259, AW839828, AA205849, W40565, BF846036, BE384335, T08947, BF846252, R59040, BE251083, BE245174, AA375700, AI803239, AU131982, AW390655, BG167322, AA361672, AA043617, BF986975, AW960746, T31957, N34599, AW971311, AA513608, AA524801, D52264, AI525368, BE933109, R30696, BE933105, AW866905, AB030656, AK023205, AL162070, and AF143957.
HE9RF77	577	858957	1 - 2234	15 - 2248	BG116787, BG030182, BG119659, AW956344, BG163645, BG253674, AI761804, BG033898, AW369665, AW389533, BE868389, BE151239, BE150853, AW995271, N33854, BG106803, BE150885, AI765925, T83665, BE090367, BE827584, R60133, AI306129, AA227714, AW962603, N35083, AA234587, BF999990, AA359612, BF804739, BE700926, BE700921, BE700888, BE700859, BE700889, BE830922,

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HCEEU61	578	1 - 1017	15 - 1031	859028	BF341491, AI767651, AI589623, AA400566, BF115657, AI818507, AI631748, AW966544, AI241021, W49494, AI360216, N36825, AI088457, AI687348, AI184624, AI080611, AI332650, AA400439, N51437, N46045, AI589863, F33824, AW612127, R84966, AI201265, BG256778, H26760, AA371890, AW294498, F01574, F01436, AI282573, C01894, BG032810, AW998037, AI383111, AA441812, AV709550, AA576476, AI292343, AI016405, AI393723, and AB002373.
HOHBV41	579	1 - 779	15 - 793	859036	BG023818, AW264567, AI955702, AW029356, AW190464, AI434815, BE223051, AI379631, AI312093, AA992746, AI418415, AW263423, AI417035, AI340286, AW517525, R78732, AA844303, AA621350, AW294515, AA055976, BF724716, AI690653, H53571, AI381263, AI823331, H68231, AA894634, H81302, AA486868, BF112143, BF350992, AF133270, AB017168, AF055585, AF074960, and AF144628.
HHFKC41	580	1 - 1892	15 - 1906	859165	AL522225, BG251695, BE615453, BE621274, BE778253, AA001374, AW958621, BF035632, BF334269, AW069590, BG165550, AV748885, AI087401, H04619, AA196770, AA584259, AI669634, AI147246, AW002729, AW089973, AA939329, AA019571, AA019711, H38587, AV723034, BE159453, BE621739, AA460365, AI470612, AA588221, AA311610, AA588216, AA019527, AA404411, H37760, AA460800, BF836835, AA196954, AA018852, H38831, AA019136, AA019135, H04596, AA404455, AW582732, AW293162, AC007282, and AC007279.
HMWGG44	581	1 - 1364	15 - 1378	859189	BE747051, BE267452, BE735420, BF182723, AI052724, AW161870, BF575655, BF115433, BE256444, BF000503, AI913268, AW149537, AW300318, BF111120, BF592884, BE788800, BF970070, BE389782, BE388555, BF106224, AW301181, BF062431, BG248851, AA916783, BE389632, BF575694, AI697738, BE258720, BF438232, BF939467, BE253566, BE464972, AW058513, BF673668, AI768818, AI332904, AI492208, BF677792, BF678560, W63721, AI697607, AI147929, AI338973, AI082464, AI185715, AW014596, BF196789, AI800232, AI290995, AI343779, W26018, AI813458, BF676098, BF671648, AA988008, AI818434, AI027432, AI917221,

HOEMM23	582	859190	1 - 758	15 - 772	AW243128, BF438293, AA575880, AA922690, AA521140, AW304893, AI982801, AI141390, BE206316, W26961, AA227813, AI086354, AI830757, BE077176, AW471044, BF590049, AA932059, AA506471, AA989427, AA610853, W23479, AI824932, BF002898, AW470757, AI824730, BF589490, AI263011, AA393925, N95074, AA393693, BE219136, H43137, AW026210, AA227942, AI433414, AI074309, AI817992, BE858582, W26098, BF753361, BF856521, AA864223, AI823830, AI056925, AI421181, AA604033, BE186022, AA639034, AI760215, W49833, H20680, AI361546, BE174017, BF694002, BE008176, AI253091, BE092397, AA503989, W31786, AA017512, W26871, W60793, H25775, AA587128, H84721, AI285472, AI271930, H82264, T32384, BE735940, BF679360, BE165340, AA782907, BE384783, H87143, AI819890, AA954838, AW391793, H27747, H20679, W04626, H84887, AI244824, AI523118, H50477, W56382, W60813, D20164, AA741392, AI095392, N99777, AA876941, BE827122, BG150513, T84331, R02745, H25824, W26769, H59054, H59055, H21975, W05588, AA670071, AA317611, H82368, AI365524, AI801858, N36076, F15817, AW161450, AA766329, T89259, AA430438, AI457316, AI282366, BF000395, AA370002, H75440, AI758089, T58250, AA508566, H22167, F16185, R02761, BF849086, AI796030, H87144, R00887, BF477801, N44080, AA320434, T58297, AW770609, BF819557, AA935713, R02746, AI241048, H88048, AW015467, AI952232, W96358, BF447057, W21499, AA501435, AW271499, AW750145, BF767657, N75564, AA012823, BE928665, H42370, R01550, H88259, BF811583, N70675, W31525, BE564417, N49125, AW779437, AA585293, BE773073, AA282503, W31466, BE773091, AA471171, N93481, N74540, AA465097, AW608599, AW304789, BF904573, AW028497, BF811573, AI270091, BF884368, AW373884, AA782960, R28800, BE186004, AA453111, BE708515, AA935478, BE174076, AA504194, AI393584, AF512645, AF151844, AF126782, AL117420, and AL163853. AA295856.
HTXPN78	583	859200	1 - 1773	15 - 1787	BE791706, BE888802, AW513963, BF104898, BG104821, AA985515, BF509221, AW182937, BG261303, AA348358, AW079155, AW300190, H69933, AA348359, AW402120, AV754429, BF974717, BF380380, BF377580, BF377576, H69934, AW899237, AA226506, BF203862, BF203940, AI905559, AC007707, AX013775, and AC002037.
HFPGR87	584	859201	1 - 1111	15 - 1125	BF951582, AW292146, BE219796, BE727496, AI986443, AI090829, AI628616, AW027274, AI268453, BG149995, AW299772, AA774673, AA236436, BE674268, AI240399, AW580591, BF035724, AI656303, W30801, AI209138, W67127, AA928985, AI342424, AA897588, AA011594, AI399911, N54506, H10777, BE219126, AI095670, W00624, AI681205, BE671383, R97990, BE670708, R96573, H64097, AW960926,

BF942423, H10776, AI217559, R98226, W46395, AA559141, N68945, W60056,
AI969867, AI457801, H05399, AW452703, AI828630, H64148, BE218750, N94455,
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BF038131, AW411026, AI863321, AI624543, BG257611, AV716516, AV760924,
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AI345229, BE876033, AI349738, AI800411, BG110946, AI687465, AV722918, AI345318,
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HE8PR67	585	859233	1 - 2029	15 - 2043	AL080129, AF061943, AR029490, AK025541, AF116609, AK027146, AB038698, AL049466, AF116646, AF016271, X72387, AL133049, E15569, AK024524, AF113690, AF118092, A08913, AF151109, AF082324, AK025708, AF321617, X65873, AL389935, AR011880, AR038854, AC004383, I89947, A08907, AP000247, AB047248, AB048888, AL137459, A08912, AL133072, A08910, A08911, AF113691, D55641, AJ001388, I89931, A08909, AL389978, AK000103, U42766, A18788, AK026534, AR087170, L04849, A08908, X87582, AB050510, AK025209, AF120268, E08631, S76508, AK025383, S61953, X63410, AF067790, S75997, AF100931, Y16645, AF119875, AK026480, AF118070, AF116614, L40363, AL122106, AR070212, AK026885, M30514, AK026744, E12579, AK025092, AR083279, AK025349, AK026630, AX020124, U30290, AF090903, AK026924, AL080140, AL157431, AR083283, AL133113, AL080126, D83032, I89934, AF111112, AF119337, AX040958, AL050190, E04233, AL133070, AF218014, AL353957, AX040974, AK025491, AK027217, AF199509, AF119843, AL122110, U00763, AB026995, AL133080, AL390154, AK025099, AL133081, AF111851, AL136842, AB025103, X92070, AX045159, AF061795, AF151685, AL133077, AK026857, AL390167, AF118094, Y11254, I33392, AJ299431, AF132676, AK026626, AL357195, AF061836, AK025084, AB052176, AL133016, AF125949, AJ010277, U80742, AL137527, AR068466, AC004686, A51774, AF116682, U01145, AB041801, AK027114, AF215669, AR019470, AF119871, AL122098, AF043493, AK000647, AL359618, AK026608, AL133560, AR020905, AK026464, AF114170, AF116676, AF028823, A65341, AK027121, AF217966, A65336, AL049938, AF118090, AL137271, AL117583, E12580, AF031147, AL389957, AF113222, AB048975, AB048995, AL122100, AF130077, AL096744, AK000323, AF111847, AL442072, AB032264, AF208026, X67813, AL117435, AF057300, AF057299, AF182215, X83508, and AI095672.
HDTDZ65	586	859250	1 - 2884	15 - 2898	BF979993, BE739707, AV702925, BG106294, BF979709, BF692048, BE875658, BG031577, AW969065, AW956307, BF238848, BF692490, BE877500, BG106556, BF698610, AA207196, AV753989, BE738926, AW021187, BF664882, BE958062, AA504569, AA449737, AA829922, AI539784, AW512129, AW337939, AI138369, N77204, AI017279, AW383910, N55014, AA897441, AA403320, AA504491, AW754093, AW779014, AI580029, AI420315, BF350751, BF664695, N51514, BE567997, BF445259, AA307575, BE243004, BF350753, BE241746, BF381782, AI362376, AL042903, AL042904, T19234, Z30261, AW082350, BF691646, AV682713, D81181, AV694509, AA452416, AV683703, AV696706, AV687084, AW385610, AA322970, BE958022, BE153413, N53183, H00502, AA375872, BF240189, BE241573, AV697950, AA741120, H00455, AA813763, AA587893, AW836387, BE242796, BE247179, BE247629, AC005702, AC004686, and AF100745.

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HWAEV63	587	859588	1 - 2195	15 - 2209	BE905540, BG250730, BE179158, AI963162, BE179145, AW994327, AI800368, BG119402, BE905227, AW576803, BE828275, BG117701, BG251765, AW957615, AW956149, AA115643, AW839120, AW367109, BE003299, BF064211, AI347952, AW274070, AW068952, AA457121, AI676201, BF726060, W47661, AW338731, AW262930, BF437087, AW778926, AW392341, AI827045, AI650770, W57866, AW139817, BE885865, AI367100, AW601166, AW601167, AA405363, AW068417, AA406218, AW129125, AI983500, N29563, H26176, AI750657, AW029065, AI224572, AW664226, BE150921, BE768694, AA860374, AI811420, AI830485, AA115644, AA368426, AI148585, AW088836, Z45441, AI963645, AA464468, BE812637, BG118496, AA351305, BE812654, BE768530, AI590898, BE814034, AI751816, AV701689, AA857298, BF987954, H99276, AA652590, AI753020, AW580772, AI751902, AI421113, AV704523, H26177, F07109, H22086, BF807481, AW580519, AW856254, BE836461, BE716176, BE836475, BF875249, BE836490, BE836458, BE836497, AW849693, AW577765, BE836464, Z40200, BE817099, BE836469, BE836463, BE836459, AA131162, BE836478, BE836470, BE836488, D82670, H27152, AW816563, BE830757, BE836472, BE836460, BE836495, BE716288, BE817077, BE836468, BE836479, F04312, BE770536, BE770534, BE817078, BE716148, BE716255, BE716293, BE716294, BE830759, BE716275, BE836462, BE716182, BE716248, BE836493, BE836500, BE716249, BE716172, BE716295, BE716158, BE716236, BE836501, AW607248, BE716277, BE836499, BE716259, BE716286, BE716258, BE716170, BF354506, BE716269, BE716163, BE768663, BE716292, BE085902, BE716261, AI698346, BE836498, BF354514, BE836465, BE830752, BE716247, BE716254, BE716165, BE716169, BE716175, BE716229, AI955793, BE716282, BE716200, BE716224, BE770550, BE836483, BE716215, BE716168, BE836485, BE716186, BE716251, BE716235, BF372107, BE770547, BE716228, BE817064, BE716237, AI290179, BE716264, BE716278, BE716284, BE716239, BE716207, BE716268, AA304325, BE716218, BE716266, BF354508, BE698270, H22014, BE716297, BF375389, BE716270, BE716291, H45930, BE716184, BE716256, AW057686, BE716238, BE836481, BE836484, BE817070, BE716173, R62159, BE770539, BE836480, BE817101, BF814827, BE716222, BE830769, BG119767, R62267, R22615, BE817088, BE716232, R22616, T33749, AW994251, BE716211, AA528800, AA664967, BE716263, BE716257, BE830754, AA834648, BE716252, BE770535, BE716161, BE716188, BE716151, BE698227, BE817063, BE716162, BE938341, BE716227, BE716260, AA188882, AF182316, AB03033, AX012181, AF207990, AX011648, AF182317, AL096713, AJ242954, and AA826157. AL530512, AL529983, BG260188, AW953134, BF967960, BG104525, BF665953, BF341687, BG168414, BE535530, AV715541, BF109210, AW243070, AV716267,

1315

						Accession numbers
	HOHAV17	588	859636	1 - 306	15 - 320	BE173601, AA122290, AW021481, BF676445, BE302313, AA326022, AW051433, BE168210, BE326324, BF679732, AW572785, AA621051, AI188770, AI675003, AI672685, BF592016, AA845640, H29044, AA282650, AI659239, AI814867, BE464335, AI128079, AW195278, N33014, AI219675, AI206854, AI695666, AA704025, AW630817, AA527402, N42127, AA614176, AA349634, AA349633, AI394144, AI436098, H29146, BE173407, AA873488, AI928254, AA860785, AI051808, N33060, AI350806, R51381, AA115947, N22300, AA344624, R40685, AI709214, AI750213, AI249367, AA669997, AI799437, BE765332, BE765281, AI538334, AA300446, AI590427, BE242948, D61315, AW891580, AI302966, AI769994, AA382732, AA888893, N27587, BE933891, R14356, AI699004, AA634623, AA249382, AI553697, AA248946, AW367833, C21562, AI352676, D20977, BE168465, BE564546, AI557018, AL136831, AB020658, AJ289880, AJ297526, AF251186, AC005669, and AJ297357. BE840188, AI905641, AI905602, BE840138, BF817426, BE838164, AB007882, AF250226, AF250227, M94968, I29958, M96653, and M93422.
	HNTAW95	589	859688	1 - 2064	15 - 2078	AL533275, AL518996, AL516727, AL516013, AL519080, AL533414, AL533320, AL515122, AL535892, AL536767, AL516728, AL533915, BE793733, AL518997, AL519081, BG116860, BE740410, BG026322, BF979878, AL516014, BE256738, BE794527, BE314646, BE791233, BE739562, BE870505, BF689369, BE908996, BE898620, BE740904, BE253757, BE621666, BE742297, AA663402, BE273432, BG109392, BE271768, AW149681, BF690325, BF980275, BE747111, BE905181, BF982282, BE744445, BE905182, BG116858, BG035810, BF968775, BE878241, BF689256, BF206149, BF314320, BF312011, BE543547, AW411275, BG110294, BE276030, BG110802, AW411274, BE893138, AW812908, BG110488, BF205402, BE898724, BG105616, BE731840, BG115896, AW581998, BF981356, BF688449, BG026004, BG116702, BF237645, BE793880, BE904837, AL514413, BF032774, BF206119, BE262554, AA069771, AI984167, AW609222, BE336828, BE621057, BE299314, BF339826, BG164333, BF036991, W61039, AV710687, BE207665, BG254515, AW813044, BE794941, BE740140, BE315068, BG037134, AI811719, BF038894, BE741879, BE206818, AW239225, BF038117, BG168378, W93647, BE618763, AA033947, BG105303, BE901598, BG153417, AA310963, BE301933, AA205591, AA974657, BF334349, BE271907, BE669915, BE264445, W37967, AI859431, AW517122, AV710853, BF666953, AW248624, BE842720, BE796325, BE266280, AW517129, AW517130, AW473258, AW163744, BG254521, BE892331, AA843508, BF108670, AI690440, AI954937, BF380269, AI623711, AI742213, AA845593, BF377351, BE905456, AI683612, AI590981, AI096682, AA436801, BE741766, AA522778, AI004409, BG113350, AI862994, AA975649, BE842721, AW167963, AA479136, AA176155, AA193567, AI422233, AI580124, AI825927,

AA486415, BE315054, AA927559, AI885600, AI580740, AI591107, BE537532,
AI915518, AW581976, AI684051, AA009649, AI199673, BE155960, BF208789,
AW163216, AA191595, BG250428, AA176265, W93480, AA983238, AI191852,
BE873939, AA191088, BF038235, AI342059, AI591178, AI628008, AI275832, BF248394,
AW083868, AA069747, AA629322, AA489273, AA843996, AA069988, AW385050,
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AI628339, AW189973, AW026972, BG178101, BE612521, BE300807, AW172819,
AI884391, AI288515, AI934840, AA604210, AW162307, BE264102, AI248770,
BE254767, W47039, AA704570, AI245629, AII67350, AW473283, W37907, AA436530,
AW439316, AI683081, AA436789, BE299034, BG113458, AI040382, AW076039,
AI970774, AI492005, AI950039, AA062553, AW160342, AI276744, BG034096,
AA187461, AA219693, W47001, AI811766, BF380272, AI583507, W93907, W39303,
AA600214, AJ276485, AX013736, AC011666, AC004941, AL050277, AX019230, I48978,
AF008439, AX019229, AL122098, AK025092, AK026927, U67958, AB019565,
AF130110, I89947, AL110221, AL133104, AK024538, AK026947, U35846, Y11587,
AK026592, AL117394, AL050138, X53587, I48979, AF067728, AX042059, AL389978,
I33392, AF119909, A08916, AL122121, AL122110, AF116644, AF119337, S68736,
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AK024524, AB052191, X62580, AL389939, AL117457, AL359615, AL133560, S61953,
AF113019, AF119899, A65341, AL133640, AB048919, AF119871, AK026744,
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			15 - 1623	BE546066, BG109406, BE379645, BF978193, BE892410, BE082642, BF672283, BF691685, AV725658, BE380072, BE299117, BF691026, BE958510, BE866753, BF103593, AI937467, BF439480, AW607429, BF590387, BF247893, BF590371, BF439193, BE645427, BF570784, BG118463, AV735234, AI768672, BE298301, BF918137, AV736490, AA306911, BF526727, BF805208, AV737302, BE349241, AA631255, AI379431, AI417918, AV651883, N32991, AI364114, AI805864, AV748959, AW172946, N24951, AI803532, AI373454, BF677779, AA417777, BE568440, BE644619, AI804016, BE677819, BF431881, AA454874, N66437, AI248190, AA236327, AA410332, AA194847, AV727230, AI080662, AA253340, AA455215, AW771164, N25572, AI493377, AA253341, AA041383, AI263832, AW363079, R48785, AI198504, AI285888, AI609725, N32983, N29642, W85944, N34173, AI476685, AV741272, AA453693,
		1 - 1609		
	859704			
HMCFL79	590			

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HNTCT36	591	859756	1 - 616	15 - 630	AW903227, BFI10321, AI700529, AI914090, AA928868, AW903168, AU155259, BF695175, and AK023367.
HTPDM61	592	859769	1 - 473	15 - 487	AL522665, BF339746, AW249192, BE265921, BE393914, BE892643, BE266417, BE276850, BE513134, AA029165, BE298350, BE792880, BE298002, BF982749, W79853, BG178248, AA252556, AW900859, AA380921, BE781902, BE889319, AA337900, AL522664, AA029014, and BF808447.
HTFOH87	593	859792	1 - 1453	15 - 1467	AL536389, BE261837, AI870285, BF437544, BE855831, BE313954, AI740447, AA628521, AI807623, AW194323, AW974180, AI869959, AA682958, AW006075, BE221224, BE221133, AW592367, AI311383, AI266583, AI951168, AA531611, BF000785, BE466198, BF948898, AA573097, AA587614, AI924712, AI284261, BE552029, AW169523, BG056895, AI937762, AW973083, AA961235, BF509853, AI589865, AI343385, BG177232, AI199264, AI954243, AI657066, AI686031, AA588241, AA576988, AA935554, AW839717, AW606575, AW606572, AW606569, BE074402, AW867504, BE965204, AW606567, BF874349, BF930606, BE703814, BF926000, AW367074, AA662528, BF930728, AA737525, AW384424, BF802846, AL136802, AL035659, AB028954, and AJ223207.
HWBDQ3 2	594	859796	1 - 912	15 - 926	BG252190, AU125263, R67199, H06664, BF823722, AW962825, Z44258, BF573302, AA356182, BE778619, BF909319, AW246341, BE152140, AW604791, AA323879, BE799060, AI341565, BF432008, BE206890, AA977148, BF762398, AF108459, AF108460, AF108461, and AK022652.
HCHMO5 3	595	859797	1 - 773	15 - 787	AV661850, BG169511, BF206995, BE787624, BE292793, AA149518, BE292947, BG167015, AW248322, BG248919, BG165453, BE788739, AW955265, W68799, BG165990, W80356, AW027341, W80631, AA807542, AW006753,

HNHMC08	596	859848	1 - 1589	15 - 1603	AA405876, AI568522, BF436364, AA142865, AW014568, AI831235, BF032073, W68728, AA135477, AI077951, AI038765, BE351031, AI371106, AA634984, AI279024, AA927093, AI131300, BF526325, AI346693, AI818983, AI040435, AI862834, AI672933, AA847380, AW090192, AA725414, W49698, AI308968, AI342232, AA405750, AA719097, AI222540, AA135567, AW960497, AI038328, AA291233, W78749, AI342828, N94738, W17032, AA308326, AI088656, BF939427, AI032894, AI022131, W49697, AA806295, AI077792, AA878384, AA704008, AA973620, AA708319, N89773, AI355923, AA306672, AI093528, AA056216, AI271747, R92271, AI215791, BF055447, AA040439, AA724958, AA894581, AI014948, AW005009, AI146870, AI041232, AI220135, AI184832, AI216830, AA056217, AI682824, AI161403, AW371794, AA906636, T34735, AA301648, AA464688, AA610246, AA304676, AW009773, AA303948, AA380765, AA772960, AW189904, AI018514, AA534787, AW998332, AA613084, AW248085, W78953, AA303607, AW079652, AA996272, AA364075, AA046631, AA303545, AA356933, R91942, D25597, H90498, AA229336, AA700414, AA704184, AA428953, AA303514, AA642176, AA809653, AA932960, AA872832, AI963537, AI636251, AA284154, AA781331, AA992512, BF751365, AA040438, AA228480, C20802, BE168202, and AW376045.
HDPFH27	597	859875	1 - 2136	15 - 2150	AL532424, BE796156, BE903161, BG119647, BG115219, AV699322, BF002481, AW194103, BF038249, BE906258, BF182905, BE501114, AW518690, BE537490, BE547105, BE512805, BG115212, AW575036, BF448095, AV689102, BE465647, AA570483, BG117796, BF739874, BE889876, AW958913, BE887067, BE872403, AW611943, BE384518, BE622262, AV683442, AW571485, BG108121, AW247071, ALJ34627, BG117816, BE967159, BE740380, BE903834, AV705406, AV685709, BG057337, BE390982, AA532739, AI950034, BF770215, BE255357, AI831065, AI791597, BE793003, AW025209, BF027150, BF983938, AI733101, BG115901, AW072315, AW088486, AW250423, AW027992, AI872396, AI822039, AI978692, BF350738, AA526905, AV698580, AA004890, AI521711, AI859462, AI589001, AW062708, AI149487, BF362487, BE960754, AA932997, AI709015, AW269349, AW269185, AI140101, AA725306, AW002658, AA481316, AI554225, AV651040, AW516405, AA600310, AI352315, AA651838, AA134415, AI635661, BE789385, AI431710, AW661983, AW235534, BF801604, AI284946, AI753373, BG116918, AA705577, H20713, AW269158, AI983743, AA134414, AI248592, AI942429, AI873092, BE407231, AA913640, AI933816, AI633977, H15546, AI360370, C04532, AA004615, AW401864, AI262449, H38876, AW269279, AV689181, AV686947, AV691088, AV695596, AV698710, AV690337, AW134805, AV684746, AV684712, BE709891, AW732631, BF591225, AV737229, AI685722, BE719073, AW517538, AA384219,

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HE9QX59	598	859884	1 - 1481	15 - 1495	AL514538, AL514537, BF973179, AI817229, AI719701, BE886848, AA861817, BE540864, AI857532, BF685664, AW953035, AU138568, BE541809, BF882981, AW170236, BE259078, BF116039, AA628530, BE731736, AL519005, BF058771, BE279433, BG236321, AI798088, AW276128, AA706544, AI690592, BE729327, AI936242, AW592540, BE300820, AU145726, BF725260, AL519004, BF058688, AW955634, AI288590, AU160340, AA609185, AA456446, AI288876, AA970744, AA476974, BE536381, AI269892, AU144344, AI280579, AA683364, AI269921, AW589468, AW183024, AI040325, AI369398, AI351847, AU143208, AA758680, AA037108, BF112266, AA974377, AA758854, AA846734, AI814293, AI827548, AI453628, AA463523, R08676, AA147166, AA161014, AI193078, AA160382, AI201408, W16606, AA477089, BF111557, N90320, AL042894, BF360688, AW194229, AI740486, AI457573, AA371940, AI223040, AA973339, N79569, AA341176, W19442, H54815, AI950731, T30595, AA454554, AA477508, R53741, BG005749, AA884950, AW393957, AA845365, AW370725, AI866999, T84668, AW370708, AA846211, AA714469, AW369715, H00344, AA216600, R27147, BF929692, AA429209, AI128440, AA329092, BE563792, AI351335, AA528113, BE958302, AII26212, H03105, BF377228, AA463488, AI167833, M85773, AI200155, R16578, AA295749, R16639, AI565210, AU143358, BE389527, BE281130, BF111975, AW263392, AI565222, AU136484, AU119365, AU117537, BF762325, R34221, AW962615, BF762284, AI886201, R34337, AA653519, H99435, AW006535, R08584, AA770337, AA382340, AA368753, AA729833, BF998521, BF985475, BF686840, H54868, BF945926, AI250874, AA343278, AI223232, AA904652, BF752789, AA904391, BE389444, BF925539, AA405515, AA161013, BF994235, BF994186, BF350866, AI873197, AA789193, BE729299, T54560, AV659190, AL137749, AF220530, AK021526, AK001325, AF207640, AF251265, AF220259, AF220255, AF220258, AF220253, AF220256, AF220254, and AF220257.
HNFBU66	599	859891	1 - 1422	15 - 1436	AA670314, and AI526181.
HLDQW16	600	859895	1 - 1201	15 - 1215	AW968490, AV648655, AV719386, AV720529, AV720417, AW378442, AV691210,

AW378450, AW341649, N63582, AI417183, AI376604, AI817536, AI554261, AW172741, BE221352, AW151796, AI311322, AV654698, AI419377, AA781933, C75553, AI564742, AW629665, AA487091, AI697365, AW615283, AA837196, AW801663, AA458946, AI265792, AW801507, AA748540, AV648814, AV648798, AA576089, AI880593, BE878191, AA448646, AI359101, AL043146, AA459589, BE465219, AW191981, AW889679, AA169302, AA459364, AW801492, BE328813, AW959894, AA312946, AA171664, AI347680, AA811486, AI079927, C05862, AA618495, AI360716, AA649087, BF435611, AV699558, AW135311, AI146600, Z21901, T19436, AA448742, AI540742, AA514684, AW088944, AA312953, AI355849, AI277008, AL514397, AV755459, AL514871, AL514093, AI635634, AL514085, AW088903, AA857847, AI269580, AI368579, AI932949, AI863321, BF970652, AL515191, AL513779, AL514691, AI637584, AL514793, AI434969, AI357599, AI241901, AW129230, AA488429, AL514627, AI925404, AL513999, AI537273, AW080290, AI872154, AL514473, BF033757, AI473451, AW055252, BE966577, AI620056, AL514823, AI282355, AL513817, AI247005, AL036187, AL513713, AL514155, AL514497, AL515413, AL513755, AW087901, AI950729, AL514511, AW105459, AI863382, AI446511, AA908294, BF814357, AL514357, AL513907, AW262491, AL514409, AI689463, AI701097, AI591420, BE966547, AA808175, AL514791, AW263569, AW118496, AI798351, AW090550, AL513693, AL515321, AI953765, BE966443, AL513553, AI539153, AW085786, W38553, AA916133, AI688854, AL513979, AL040011, AL514721, AW075484, AL515195, AL514015, AI702073, AI096771, AI927755, BF909758, AL513631, AL513631, AL514457, AI590021, AL514455, AI538564, AI683173, AL513977, AI623941, AI362537, AW169462, AI636719, AI784214, AW161156, AI690946, AI635851, AI863466, AI491775, AI891102, AL514087, AI359787, AL513783, AW169132, AL514919, BF126355, AI537303, AA449768, AI590227, AL513913, AI866624, BG250746, AI565172, AL513597, AW243886, AW089439, AL514359, BF724683, BE890427, AI339115, AI628711, BF752997, AI371984, BG179099, AL514493, AI569975, AI539578, AI640873, R36363, AA814782, AW198090, BF766531, AI862139, BG108244, BG109857, AL514867, BE888257, AW167777, AI250627, AW827285, AL515235, AW236466, AL514415, AI583558, BE965111, AL514657, AL038529, BE544111, AL513723, AW189332, AW090086, AW128841, AW192652, AW073996, AI890838, AL514063, AL514407, BG109998, AI458237, BE966927, AI824648, AW075613, BE965014, AI680226, AW082033, AW131294, AL513991, AI687127, AL513865, AI630928, AW073677, AW102785, AI683475, AL133074, AK025792, AX035208, AJ131776, E02221, AB052191, AL389935, AL080060, X80340, AF130066, AK026452, I32738, AK024588, AF017152, U87620, AF119875, AK025119, AK027204, AF114170, AB050510, AK026626, X86693, Y13350,

| HTLGS48 | 601 | 859918 | 1 - 1550 | 15 - 1564 | AF116610, AL117460, AB049880, AL359601, AL133075, AK025798, AF067790, I89947, X06146, I48978, A86558, AF118094, AK025092, AF116688, X63574, AF130054, I17544, AL117649, AK000083, AF013214, AL117648, AK026613, AL390167, AF155148, AL162002, AL050172, AK025407, AK027188, AL050024, AL137271, AF090900, S83440, AL389947, AL133558, AK025099, AL137523, AK026749, AF116639, AB047248, AK024974, AK027164, A08907, AF130100, AL110296, AF200464, X84990, AL080234, AL137547, AL050092, AL137480, AF130059, AL137627, AF036941, AR072149, AK024747, AF031147, AF047716, AK026038, AF195092, AL049426, AL133104, AL389982, AF065135, U95114, AL137530, AF218023, AF116646, AF106657, AL080126, AK025465, AL162004, AL137276, M19658, AF176651, AC004227, Z97214, AK024986, AL117587, AB041801, A08913, AF094480, AL050116, X53587, AR038854, AL050322, AL133080, AL359583, AL359623, A08912, AL110224, AL359618, A08911, AK000718, AK027116, AF113690, AK027113, X66862, A07588, AK026583, AK026642, AF143723, AF177336, AK025209, Z49258, I66342, S77771, AK027221, AL096751, E01614, E13364, AF119843, AK026542, A18777, AL136884, AL122106, AF116609, AX017991, AB050431, L04504, AL122121, S76508, A08910, AF116631, A21103, AK026408, A08909, AL049996, U70981, X66871, AC004399, AF130055, AK000137, AK027173, AF232009, AC023880, AL080148, S54890, AL133084, A08908, AF217966, AR000496, U39656, S82852, Z82022, AX046749, AK025414, AF061981, AP001346, AL122100, AK027142, I09499, AF090896, AL049430, AK027104, AL359620, AF175983, L04849, AF126247, AB026995, AK000247, X99257, I26207, Z72491, AL137258, AF119909, AL137459, X59414, AK025524, AL023657, AK025113, AL133665, U72621, AF104032, AL122050, I68732, AK024570, AL133049, I89931, AF119337, I30339, I30334, U92068, AL080159, AF119871, AK026797, E01314, AK000753, Y14314, AX019230, AF130082, AF260566, AJ010277, AL050155, AF139986, AK027136, X62773, AF116682, AL137537, AB049892, AR087170, AF067728, AX042059, I48979, AF218014, AK026762, AK027146, AB048975, AF109155, AR053103, AB040710, AF185614, E06743, AF199027, AL353957, AL122118, AK026532, AR029580, AF111112, A30330, A30331, L04852, AF145233, AB049849, AB047623, and AB048919.

AL538031, BF526296, BE905499, BF975915, BG171024, BF975640, BG166390, BG105861, AW027692, BE906058, BE868887, AI066792, AI674075, W73135, AI126174, W73115, AI918136, AA806473, AA687840, AA651704, AI080064, AI131085, BG122007, AA652620, AI798216, AA938305, AI673640, W76098, W93683, R51338, AA814727, BF437388, W72893, AW874617, R01699, F08949, T19610, BG055686, BF435545, T30370, AW304419, F11288, R59377, R13096, BF941749, AW474081, AA670391, F11866, AW016848, AA809829, F09511, R19220, AA351891, BF804668, BE839292, AW958005, T19611, AI380671, AI380671, BE839293, BE703233, R59435, BE693695, BE703274, |

HNHDY54	602	859973	1 - 581	15 - 595	BE769891, BE703492, BG166271, AA358209, BF217305, R40528, AV701813, and AB028173.
HAPPS75	603	860023	1 - 1654	15 - 1668	AL532144, BE410198, BE739589, BF688595, BF340680, BE895261, BG106482, BF688986, BF000082, BF204415, BE792338, AW370556, BE905733, BG164347, BE910617, AU134636, BG165967, AW026312, BE789287, BE273796, BE739343, AW956434, BF924505, AW298245, AA923304, BF924340, BF214675, BF725735, BE273078, AA452936, AI954739, AI660828, BF879439, BF209436, AA058760, BF919249, AA039704, BF218803, AI493723, AA641666, AA502611, AI540196, AI436565, AI817852, AW370493, AW058671, BG106316, AW304317, AI128059, AI831204, AW068407, AA446627, AII89995, AI831213, AA740469, AI041255, W65295, AI026922, AA443840, BE271871, AA831862, AI952042, AI669862, BE856167, BE961207, AI206467, AI244961, AI356276, AI376919, AI475488, AU155552, BF925739, BF446119, BF931287, AI015178, BF343980, AI301359, AI707965, AA721617, T17379, AA452800, AA312359, BF001302, AI146728, R21538, AA053685, BF592004, R86654, AA551944, BF926640, AA281320, R86831, AW440523, T90016, N89584, AI198746, T90113, N59584, AA053240, N41034, AI431987, AA340053, AI056728, AI658607, AI867342, BE938514, T82842, AI090164, AA984822, AW996480, AW067939, AA918334, AA706016, C02143, AA947728, AI612974, F10063, AA026963, BF869132, W65393, AI694016, AA054963, AI091083, T82937, AI932841, BF868875, BF223553, AA039703, AA837231, N89995, W16890, W22072, AW849327, AI110828, BG036614, AW152000, AK001812, AJ242910, AJ242909, AJ242911, AC007881, I76211, AF169202, AF218033, U75370, I08319, AB049852, X58257, X02750, AK026544, AL137561, AC005284, AB041801, J00983, AK025541, U96074, U51124, AF016628, AC009286, and AF241734.
HWLEL47	604	860167	1 - 607	15 - 621	AL139350, and AL121781.
HNGJG75	605	860381	1 - 1020	15 - 1034	
HKAJU40	606	860461	1 - 803	15 - 817	AL525892, BG168263, BG024910, BG252569, BG116842, BE548363, BG111172, BF342806, BE873077, BF796412, AL047081, BE789986, BE895653, BF666232, BF038167, BE901533, BF694320, BE565807, BE958018, AA306766, AW247734, BF126617, BF028981, BF677714, BF697113, BF694321, BG250559, AW578577, BF694106, BG164398, BE745350, BE866413, AI207533, AW247663, BE395875, AW327322, AA312716, BG120984, BF242965, AA448791, BF825824, BE903785, BE614007, AA102314, AA085594, AW959471, AW195768, N77750, BE563987, BE266889, AA663722, BE176308, BF940756, AA302924, AL043489, W22308, BF930779, AW195779, BE091077, BF920976, BE176316, BG255456, N88476, AA083268, AA297926, AW579209, AW959155, AW579209, BF245164, BE891471, N45249, W93292,

					Accessions
					AA361895, AV661756, AW795436, AW162171, AW195783, D45268, AW131662, AV743272, BF345629, AW364862, C20604, BF345498, BF345625, AI824162, C15962, BF345497, AA297481, AA706803, BF572375, D61558, BE774649, BF345699, AW795455, BG256383, BF345691, W92073, BE169496, BE169978, AW513782, AW193502, AI828497, AA858097, BE169443, BE169499, BE175566, BE175575, AA574144, W79341, AW073964, R32988, BE175500, AW327526, AI860786, AI582783, AI906960, AI360138, AW795457, W56837, AF176008, AF085361, AB042815, AF176009, and M61937.
HYABL83	607	860565	1 - 1735	15 - 1749	BEJ13343, BE713372, BE883801, BE713345, BE397530, BE713362, AI767336, AI767347, BE713351, BE713361, BE713368, AA827135, AW965741, AA235135, BF948857, T56519, AW080491, AA429313, AI651687, AI970359, AA700540, BE269627, BE154189, BF511427, AW382882, BE154324, T07689, R71531, BE154254, AW382883, BE706806, AW382878, AI457154, T08799, AW382906, AI074248, T07847, AA367765, AA310553, AI962121, AA234828, R72990, AW842083, R17265, AI934128, R73600, AA890391, R71481, R36263, T56470, BE146311, AW382921, BE706097, R36264, BF923395, AW082392, C02924, BF923380, AW994547, AA113443, R84816, BF799684, AW994544, H16138, H26925, T20200, AW965751, AA004985, H72436, H53973, AW269219, and BE938571.
HKADF82	608	860617	1 - 798	15 - 812	AL526910, BE744744, BE731087, BG163270, BE897309, BE261655, BE541795, BE788891, AV753197, AI908497, BE140267, AI908495, AA884619, AW806502, BF374293, T10439, BF244108, BF700570, BF696636, BE388395, Z44955, H06611, AK026904, and AX011642.
HNGEK43	609	860646	1 - 659	15 - 673	
HTAJS93	610	860849	1 - 2187	15 - 2201	BE747585, AW976171, BE898748, AV745344, BE741004, BE878725, AA427627, BG258661, BE560683, AW959187, AI937301, BE245403, AA868377, AW516875, AI828651, AW170518, AI217153, AI743424, AI363389, AI673073, AI366674, AW001889, AV745623, AA922149, AW084488, AI275905, AI744705, AI685377, BF196332, AI384044, AI339568, AA811193, AI739227, AA461505, AI923644, AI056371, H20137, AI797976, AI800824, AI472127, BF445946, AW130654, AI970737, BF059008, AI659951, AI632980, AA741261, AI142039, AA552337, H39189, AI739226, AW206054, AI445211, AA813881, H45408, AI392978, AA825932, AA968938, W02514, AI394459, N98700, AI269770, AI214924, AI364323, AA969916, AI378436, N66099, M62040, AA708841, N77979, AW089002, BF879827, AI248327, AW137018, AI201319, R68081, N74564, AA693839, AA460579, AI356177, H46909, AW615186, AW023399, T34433, AI247905, AA714852, AI934509, H70607, N58389, H66226, BF763404, R68118, AA906882, T80644, AI218643, BF739982, AA677948, N80438, AI264237, R53500, BF877861, AW389409, AI000835, AW207229, AI243765, AA835650, BG261241,

HE9PJ48	611	861223	1 - 2782	15 - 2796	BF904778, AW151974, and AK025886. BE561224, BE748770, BE799836, BE781793, BG260953, BF795165, BE736001, AU135779, BE908447, BF207190, BF306911, BE746281, BF303777, BF038783, BF313302, BE892326, BG257144, AU140031, BG250622, BF206248, BE394264, BE268099, BE748461, BG250629, BF530381, BE393019, BE784409, BE617189, BE744127, BE269386, BE868316, BE397085, BE271847, BG036325, BF182918, BG253106, BE262724, BF984080, BE513571, BF308427, W81694, BF791489, BE789288, BE269621, BE871321, BF527751, BF219942, BE397777, AW410125, BE746290, BE464784, BE392193, AA314814, W81695, BF341140, BE617993, AI628536, BF939068, BF589431, AA868185, AA868483, BF841520, AA699561, BE669864, BF833993, AA309433, AA909193, BF310227, AA868274, AW956468, BE208549, AI697632, AW771433, BF315662, AA496104, AI692693, BE939155, AI092158, AU117067, D57936, BF316480, AI688593, AW410126, AI188397, AW150851, AA626397, AA568888, AI813424, AA005092, AI640324, AI309959, AI023783, AI140398, AI095450, AW661738, AI624290, AI248235, AA722417, AA286868, AW057822, BE046374, AI356084, AI417370, W56479, AA826110, W01304, AI702987, AA039308, AA100004, BF327483, AA916678, T03518, AI985697, AA807081, AA976850, BE261528, BE271934, AI625349, AI367402, AI142964, AW250070, BF993017, AA349376, AA805474, AU156279, AI494346, AA581027, AI278313, AA351768, AL135370, AI188395, AA837455, AA293616, AI206231, AA909390, AI807229, AW801639, T80295, BF852346, AI367421, H28984, AI884886, AW801783, AI283305, AW190232, F02684, AA373612, AW296498, F06394, AW130126, AA976849, R98902, AA370738, T91458, AW732260, AA580961, AA359229, AW242094, BF378704, AA906487, BE826088, F02664, AA379588, F02665, BE514157, F06376, AI198456, AI090744, BE837123, H67769, AA642851, AA379444, AI220040, BE837234, BE909757, BE826091, T91367, AA223465, BF992994, BE837394, F06375, T92153, BE397383, AA303694, AW051873, AI214855, AW806479, AW806487, BE856618, AW806679, BE348880, AI909784, AI559980, R17894, BE140291, BF743676, AW818297, BE044367, AA223644, BF743142, AA689538, AI024504, AA374168, AA214689, AW169983, BF056276, R43140, AA377775, BE677852, AW750972, T16600, D57303, H29089, AI686974, BE140391, AV736288, AV736267, AW751048, AI373533, BE833472, AA352907, AI802358, AW751040, F05152, AI392785, AW751043, BF309534, BE140106, AA730600, BE961938, BE140243, AI905177, AI472424, F00871, BE397091, R57538, AA773382, T93580, BF183790, BE140356, BE742557, AW751046, BE936628, AW893579, AA496103, C03919, BF220021, BF759532, AI940333, D14694, AF042731, and D10234.
HPRBC95	612	861227	1 - 1114	15 - 1128	AI745624, AA469990, AW956151, AA412063, AA418818, BE645499, AA412263, N94496, AI360797, T15410, AI266500, H19051, BE855516, AW392398, AI085869,

Name	No.	ID			Accessions
					AI269499, BF221746, F06527, R74356, BG121222, Z39475, R74355, R62954, H19341, AA989436, AI868725, R15818, AW205608, T32733, AA371207, BE160822, AV658297, W23946, AI273078, AW513602, AI920908, AA368274, BE160927, BE160917, BF104911, AI206019, AC008821, AC008924, and T66444.
HDPUM54	613	861242	1 - 481	15 - 495	BG000438, D25538, AC007597, and U12919.
HHFLL92	614	861294	1 - 2638	15 - 2652	BG167313, BE900315, AL039400, BE884344, BG249782, AV753572, BF308572, AI871719, BF058945, BF339648, N36098, BF061439, BE439990, AA662205, AI140127, AI457676, AI811001, N24770, AW298622, AI432423, AI885705, AI333169, AA563808, AI139522, AA129404, AA864279, AI192746, AW118992, AA939209, AA668916, AI564757, C75552, AA847888, AA662165, AI696929, AW606651, AI814553, AA204900, BE746388, AW961767, AI057234, AI814745, C75086, BG169516, AA490113, AW028941, AA897467, AA574248, AW407202, AA171602, AA602132, AI921109, BF336840, AI432792, AA121160, AW815421, AW511846, AI049727, AA122378, AI567567, C75461, AI221449, N93237, W25094, R63270, AW293990, AL039399, AI240631, H83038, BE383532, AW961429, BE669771, AW294261, W57576, BF761772, N80146, AA131639, AA441953, H27740, BF921799, AA359095, AA378415, AW794926, AA382847, AI700223, BF743361, AA328820, AA923716, AI432486, AA342845, AI187829, AA339884, T10609, C00558, N44101, AI340252, AI335635, BE241876, AA204851, AW590717, AA789162, AU127908, AA347918, AA709295, BG014393, BE729337, AA862673, R34037, AA830387, AW962476, BF086375, AI828118, W03673, R63222, T10371, C17620, AI361169, AA171502, AA603411, AA347917, W72108, R33496, AI868913, AA131721, N58100, H95738, AV737030, AA382846, BE925376, T18550, N87322, R45910, H82819, AI027852, BF855921, BE766858, BE241628, BE218663, BF989825, AK026076, and AL137588.
HMCHK65	615	861307	1 - 622	15 - 636	AU138426, BE777959, N57268, BF086933, BF086946, BE093384, AA456756, AA172291, AI375670, and AK002100.
HAIDK89	616	861328	1 - 2312	15 - 2326	BG252095, BF794285, AW965312, AW977747, AII126305, AA443175, BF195835, BE246211, AI338421, BE907520, BE244122, AL044740, AA679079, AI913238, AI333023, AA972520, AA838427, AW605328, AI307325, BF222431, AA463484, AI805628, AW630931, AA828370, AW078809, R43305, AI225223, AW006036, AA587907, AA922459, AA707365, BF923727, Z45320, Z45577, AA332396, AI205049, AI928687, R82447, R82448, Z41035, H81876, T96841, AA362022, F04432, BF878445, Z44629, AI740575, AA937210, C01328, T96842, BF763516, F03673, T19711, H81899, H81875, AW081213, H81900, AI658899, AI863622, BF939300, T19712, BF923780, BF804036, BF894323, BF763515, R47213, BF911270, AI623302, AI431307, AI431316, AW972093, AI431337, AI431235, AI791349, AW968355, AW968356, AI432644, AW968729, AI432643, AI432651, AI431330, AW971740, BE672745, AI432647,

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HTOHL88	617	861361	1 - 1463	15 - 1477	BF111995, BF111899, AW051348, AI807015, AA349433, H05458, F02812, T50073, T39468, T39511, Z43427, T50009, AI372659, BE843943, BG015163, BE938621, AA860404, BE843892, BE698483, BF092079, AI372657, BE301746, BG015653, AA496848, R89202, AF169301, AX040922, AX040934, AX040924, AX040928, AX040936, AX040940, AX040930, AX040942, AX040926, AX040938, AX040932, and AX040944.
HMEKU54	618	861611	1 - 702	15 - 716	BE743073, AV721074, BE744621, BG177628, BE315199, BE731132, AA044813, BF964898, AV724264, AW958685, AA293644, BE394890, AI141037, AW964442, AW054852, BE903034, AI693593, BF975326, BF975857, BF974460, BE409839, N48184, BF115585, BE672854, BE407753, BE042539, AW513188, AA551870, AI309256, AW008397, AI816062, AI885030, BF223532, AW007352, W39069, AI879497, AI660034, BG178962, AA642443, AI878998, AA283774, AI572009, AI199482, AI815979, BE173475, AA513683, BE173419, BE702293, AI202821, AI768808, AA025347, H01948, BE906559, AW769817, H71578, AI220856, H13523, AA291596, AA044838, AA290879, AI885158, AW007082, AA923113, H89912, AA935928, AA593956, BE072983, H84051, AA570459, AA318740, N53331, AI197973, AI908082, AI640612, AI245242, W32234, R34586, AA312590, AI611579, AA025355, AW512766, W32199, AI586956, BE703159, N89813, AA934930, N75572, AU144164, AA502925, N50180, T98429, AI810695, AI215873, AA987745, H04498, BE006750, BE006747, R34585, BF968659, BF431132, N56327, AW022203, AA252664, AW955053, AA322938, AA406368, AU117281, AW404162, D62795, AF041429, AK021489, and AL022069.
HOQBR51	619	861620	1 - 1094	15 - 1108	BE904302, BF568253, AA452165, AA426015, AW952776, AW805228, AI288193, AA084096, BG055477, AA682907, AW960624, AA398343, AA947931, AI197950, BF510821, BG056413, BE179883, AW089706, AA452397, AI420512, AA293851, AI694330, AI968970, H49529, AW372112, AI368631, AA428101, AA740545, AW089957, W90083, BF591892, AI347092, BE394895, H49767, AI016563, AW893221, BE075371, W90209, AA205212, BF591840, AA338815, BF437055, AA335913, AA338814, T19311, AA031975, AI272681, AA031974, AA205167, AW893301, AV703152, AW953924, AW960227, AV702681, AV708320, AW963866, AW958104,

| HAMGP34 | 620 | 861668 | 1 - 2624 | 15 - 2638 | AW956626, AW965869, AW950765, AV706290, AW964061, AW963405, AW954001, AW956781, AW964897, AW956619, AW959851, AW953993, AV727442, AV653872, AW952007, AV726930, AW956618, AV709880, AV692197, AV705247, AV727625, AW949516, AW951998, AV726743, AW954237, AV703515, AV727510, AW960587, AW958153, AV726026, AV729132, AV707238, AV706910, AV706417, AW965505, AV707533, AW950994, AW950197, AW962908, AW964071, AW954134, AV703790, AW949436, AV727347, AV709101, AV728929, AV729285, AV706453, AV703589, AV652026, AV701730, AV702637, AV728715, AV649566, AV727047, AV694684, AV646575, AW963256, AV726194, AV703591, AW953797, AW952427, AW954697, AV704601, AV655096, AW963087, AV687519, AV703877, AV705216, AV704124, AW967310, AW958028, AW951426, AW957090, AW952418, AV703878, AV707155, AV703742, AW955400, AV706432, AW962003, AW960256, AW951182, AV702417, AV705517, AW963804, AW965874, AV709232, AV705684, AV726519, AW960779, AW953709, AV727935, AV728467, AV707801, AW951248, AV727420, AV701946, AV650367, AW960067, AW960601, AW955230, AW953953, AW954104, AW963616, AW955683, AV707529, AW953788, AW951793, AV709576, AV655661, AV701953, AV706964, AV708610, AV703632, AV728459, AV728845, AW964752, AV725845, AV652792, AW949517, AW952885, AV707117, AV702506, AW955662, AV703342, AV701626, AV704833, AV649305, AW954266, AW963598, AW952410, AW956792, AW957985, AV704774, AV703923, AI535660, AW952223, AV703927, AW964985, AV709937, AV657617, AV693149, AV708815, AV702276, AW950443, AV703553, AV726768, AV706342, AV728884, AV725152, AV691862, AW949529, AW949523, AW952403, AW952183, AW959806, AV656903, AW951738, AV661704, AV697196, AW952751, AW956075, AV645936, AV708589, AV709587, AW955723, AV658084, AV692600, AW956162, AV650315, AW964196, AV659389, AV697880, AV727613, AV656373, AV726010, AV655280, AV660258, AV647789, AV708109, AW959521, AW956474, AV659294, AV727787, AV703146, AV686060, AV725745, AV660608, AV686064, AV728148, AW951239, AX040581, AX047063, A62298, Z30183, AR050070, AX047062, AX047064, AF320628, A82595, A82593, U94592, AB030204, AR025466, and AX046743.

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| HHELG22 | 621 | 861683 | 1 - 1379 | 15 - 1393 | AL515768, AL515769, AL514640, AL514639, AL519556, AL519557, BF967595, BF341094, BF791789, BG109630, AV728675, AL519901, AL519900, BG122004, BE736572, BF307579, BE779163, AV746319, BG107882, AV714586, W44679, AV752184, BE894935, AW968505, AI890560, BG163396, BE891391, AA099273, BG031520, BE895633, BF735925, BF726338, AA878212, BE542157, AA732222, AV713978, BF921086, BE763324, AW575099, AW575100, BF965804, BF967512, AV752080, AI740578, BF732808, AW150933, AW276564, AA926775, AA044713, AW954811, AA454649, AA456262, BF203162, AA813289, BF210990, BF575453, BF808054, AA916010, BF940195, AI419983, BE541856, AA165256, AI928819, AI745053, AA187083, AA143151, W93810, AW469220, BF766017, AI738911, AW440214, N35185, AI078212, AI929089, BF224030, AI761914, BE165923, AI693625, AA932898, BE672485, AW271592, AI148178, AI394261, BE763355, AW006011, AI056934, AI095473, AA480903, AW172367, AA099321, AW166446, AA679256, AA151528, AA524497, AW401929, AV723979, AA609394, AI589306, AA936450, BG111109, AA150234, H29463, AI339779, BF928362, AW965434, AA860734, AA045037, AI125169, BF816513, N75627, AI962015, AI283124, R60626, W93921, AA232412, AW022061, AV731141, AV707127, AA424453, AA598407, AA181330, BF675970, AI123977, AA558445, AI278557, AW262834, W44680, AA706261, AA909819, BF095999, AA854946, BE940752, AA152292, AA493826, AI633473, AW614151, AA045036, AA885111, AA480965, AW873084, AW663737, AI220625, AW511995, AA142975, AA131268, AI420791, AI351559, AI539546, BE827423, AI039077, R69711, BF677981, BE676828, BF109079, R60573, AI091994, AV746110, AV753918, R60615, AW401927, AI809414, AV728150, AW001015, BE175156, AW511876, R50906, AA011658, AA939113, BE172078, AA282098, BE221361, D20566, H09532, AW001802, BF242055, N22387, H99061, AA446423, AW105368, AW021290, AA837337, AA918671, AI492760, R09389, R43281, BG152427, AA558589, AI766977, AA814917, AA805117, AA492542, AI369989, AA731128, AA151608, AA782945, R60559, AA854134, N51623, R55346, AA099856, W32425, R01681, AA494474, N88951, AW403780, AA927109, AA307931, AA843253, AW880292, AA902532, AW674571, H29464, BE180364, AI580882, AA932617, R69619, AA098894, BE073178, AA98282, Z25933, N53918, AA332589, T03883, BE825215, AW889212, AI192032, T93602, |
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HDPTD75	622	861707	1 - 1764	15 - 1778	

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HTLIC39	623	1 - 1162	15 - 1176	BE743928, BE901784, BF527770, BF972990, BE792390, AW081174, BF314507, AI831048, AW166247, AA773631, AA648918, AA923302, AA470901, AA535051, BE675162, AA428315, AW404462, BF589314, BF058262, BF955274, AI933035, W96411, W96412, AI950956, BF195422, BE929123, AW014426, AA429382, BE720431, AI341065, T97242, D20146, AA220236, T97243, BF058263, AA897633, BE734767, AW168514, AA910288, BE092731, AA872430, AI243751, AI272807, AI499683, BF871404, BE004082, BF871406, BE092761, Y13835, AF121951, AJ251644, and AJ251645.
HNECI74	624	1 - 969	15 - 983	AL536470, BE003559, BG255346, BE906476, BE327116, AI160211, AI401803, AI093195, AA909044, BE739863, AW139425, AI359322, AA947175, BE139159, AI040225, AI590899, AI199332, AA640032, AI343963, AA938008, BE138596, AA046040, BG230657, H98981, AA489354, BE247164, BE612820, AA938468, T93895, BE745554, AA374641, AA584427, AW970771, BF807866, AI446654, R69484, BE049049, AI916674, AI921343, BF855218, AA075868, AV730097, AV730383, AV731010, AA099236, AV732734, AA582143, AW605255, BE138956, BF000315, BF905448, BF754225, T93945, AA953018, BE151495, AI348711, BF791792, BF339923, BE620487, AW235415, AI203124, AA780963, AA894708, AI972749, R44116, AV715310, BF858888, AW901478, BE743888, BF829667, BF725761, BE439761, BF928492, AI870197, AA532419, AA634837, BF873332, AW841930, AI753488, BF310123, BE968744, AV739833, AC008753, AK024449, AC020917, AC011490, AC005881, AC006211, AC004963, AL050335, AC005736, AC078899, AC004647, AC008687, AL136137, AC007151, AC003973, AC004799, AL357519, AL121653, AC010198, AC004914, AL035704, AC004799, AL159168, AL022318, AC004089, AL078604, Z84486, U82668, AL033527, Z98884, AC011514, AC008033, AC007510, AC004847, AL021918, AC015651, AC002477, AP001695, AC018758, AC018644, AL023575, AL109654, AL136526, AC009756, AC005015, U95742, Z82244, AC006511, AP000348, AL022476, AL139396, Z82178, AC004656, AC007216, AC008569, AF131215,

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HCRNU23	625	862179	1 - 2324	15 - 2338	BG028883, AW968598, AI356895, AI658664, BF514897, AI478203, AW611783, BE217946, AI795923, AI668807, BF196102, AW967773, BF436879, AA768899, AA847849, AI139330, BE220879, AW452053, BE645036, BF509597, AA252471, AI640819, AI564100, BF515994, BE677776, AI076847, AI749748, AA465270, AW614077, AI253083, BE812744, AA456392, AI268480, AA741570, BE934742, AA805944, BE139537, AA455923, AA861028, AW576288, AI167589, AA742295, BE671268, AI652754, AA465157, AI022306, AW008697, AA026333, AI473203, AA026332, AI452883, AI560649, AA252907, AI400078, AA194138, BE262718, BE869050, AA743503, AA905237, AI468598, and AI423541.
HCMSK41	626	862374	1 - 550	15 - 564	AA719296, and AA758153.
HEEAF67	627	862392	1 - 1310	15 - 1324	AL526528, AL521295, AL520535, AL526867, AL532967, BF966843, AL525396, AV727476, AW956422, AW384798, AW192348, BE674240, AI803011, AI973084, AI675809, AV651502, AW118839, AI671022, BG104167, AI935787, AU146133, BE535837, AW938624, AI831233, BE645619, BE504265, AA046886, BE504248, BF196728, AW466913, AA936951, AA046979, AW589954, AV727676, AA029400, AW340759, AW236130, AW665544, AI264581, AI418623, AA150960, AW296225, W44759, AI093394, BF446143, AI302073, AW088730, AU146787, AI435580, N70304, H39508, AU150654, AI800707, AI191597, AI242558, AA031539, AW589926, AI650824, W73928, AA421100, AI459694, W79047, AA226372, AI564140, BF477497, AW235148, AA243847, AW265034, AI273243, D59998, AA226593, AA084054, W04250, H54170, BF115394, BE044190, AA421099, AW294446, AW995404, AA422134, AI433141,

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HWAFQ22	628	862394	1 - 1612	15 - 1626	BE313732, BE514284, BE313394, BF312398, AII83639, AA411552, BF203718, BE870754, BE799743, BE312575, H29130, AW732755, AA868160, R19598, AA021220, AW408624, R59798, R14349, AL530288, R84324, BE561531, T48680, Z42920, BF207404, AW956949, AW977159, AW501357, F11367, R54256, AA730224, BF513891, AA159907, AI986302, BF764015, BF343885, and AB029023.
HCECR08	629	862433	1 - 1069	15 - 1083	AW193511, BG122671, BF968935, AW243892, BE501969, BF196881, AW513114, AI671129, BF674587, AI803180, AA703257, BF026064, AV705114, AU157517, AA481582, BF984049, AA902314, N35074, AI147921, AA677858, AI378540, AA969662, AI147803, R17947, BE788301, AI890658, AA074473, BF082480, AV726891, AA598983, AA861833, N40526, AI673650, N42977, BE700216, BE547281, AI948609, AA806101, AI620761, BE700267, D58438, N43814, AA921876, BE891608, H03027, AA948704, AI823850, AW471147, AI948617, T30997, N40566, AI572240, AW577786, BF149171, AW978253, AA559334, BF477795, BG109553, N46607, R32001, AA630587, BG165450, AI219944, AA327638, T30989, AI678315, AI702921, Z40405, AW962738, AV728223, BF846083, BE700006, AB021179, and AK023624.
HDPCX59	630	862442	1 - 1803	15 - 1817	AL520065, AL520064, BG249428, BE869699, AA522435, BE257308, AW809407, AW968474, BG253524, BE267183, AI583193, BE548020, AI580066, AA425038, AA602386, AW027266, AA535913, AI201750, AA495955, AI140976, AI400417, AI769557, AI076831, BG230609, BF029884, AI131500, AI810252, AA459496, AI674407, AI762755, AW003027, AW027517, AW305023, AI686492, BF001486, AW513839, AI147015, AW170527, AW512793, AA459267, BF476313, AI276539, AA653361, AI208079, AI292269, W40356, AA599024, AI027947, AW292543, AA733190, AI659802, AI346823, AI767262, AA932457, AA514642, AI367819, AI149913, AI038298, AI400960, W87475, AI350089, W87570, AA678680, BE737436, AA770540, AV703226, AI049656, AA019475, AI804757, AI620623, AW007575, AI346300, AA136872, AI524491, BF831374, R91747, N93865, AA040672, AI264070, AA040574, AI829046, AI446012,

AA447953, AA040302, AW590732, AA682598, N63821, BF796049, BF727423, H42039, AA678959, N55213, BE904397, AI366834, AI798080, BE093371, T70289, BF328267, AA040378, AA600308, BF664472, BF817648, BE043311, BF831381, BF940613, N94179, H78080, AI863973, AA218872, AA282766, AI763360, AA284920, AA873695, AI476005, AI440259, AI242375, R44736, AA253134, BF939402, R92174, BE855969, T80864, AI371441, BE736064, R11452, AI942253, H54410, Z24993, BE390360, AI083613, AA730984, AI185558, AI092139, AI381228, AW59185l, AA281036, AW592289, H42080, R19200, AI423940, H89831, AA019122, AA039867, BF901970, H90682, H78081, AA917326, AI905682, AW247089, AA013169, H85966, AA127244, AA019325, AI241891, AA019123, N77272, AI568308, AA987371, BE539363, BE783035, AA342636, H54496, AI694855, AI699762, AI434194, R19935, AI539401, BE535300, R73243, AI638770, AI656046, H25903, AA911247, R29655, H86674, AA778262, AA136802, AA448885, AA883718, AI016488, AI133070, BF833872, BF817418, AI538564, AL514867, BE964767, AL514701, BF970652, BF725644, AL513743, BF921092, BF751355, AL514721, AW131999, AL514357, BF812961, AA641818, AI241923, AL514473, BE965707, AI863382, AI432030, AI564719, AI627988, AL515089, AW167021, AW152182, AI889376, AL120853, AI433157, AI702073, AI633125, AI537677, AI446606, AW238691, AL513631, AI366900, AI921248, AL513553, BE910373, AL045500, AI683173, AI69839l, AL046595, AW084425, AI868931, AW004886, AI670009, BF814527, AI889189, AI612852, AI682971, AL513947, AI312542, AW083778, AI624293, AL513977, AV652443, AI917963, BF812938, AI521103, AI620003, AI247293, BE843239, AA502794, AI669609, BF814761, N33175, AI583065, AI521560, AL110282, AF118070, I89947, AR038854, I48978, AF285167, A18788, AL080159, A65341, AF061981, AL080148, A77033, A77035, AF090901, AK000636, I33392, Z82022, A08916, A08910, A18777, A08909, Y14314, AK026550, A08908, AL162003, AK000250, AK025517, AL050393, AL137480, A21103, AK026408, AL162083, A08913, AL122100, AL137479, AL389935, AL110218, AX026824, AX026823, A58524, A58523, E05822, AL353957, AF130105, AL050155, X81464, AL122110, AL110280, AL137478, AF087943, AL137271, AL137648, AL050149, AK025254, AL137488, AK027096, AK026744, AL353956, U35846, AL137463, I48979, AK026532, AB050410, AJ299431, AK025632, AL353956, AX040974, AF254119, AF287051, AK026533, I89931, AK000418, AK026045, AX040974, AB050431, AB047904, A08912, U78525, AK026462, AR087170, AL359941, AL117416, AB050431, AB047904, AF130055, AB041801, AF061573, AL137533, AF130104, AL050277, AK026784, AF137550, AB024524, I09499, AF177401, AL137459, AF183393, AK027160, AL137529, AL133067, L19437, AJ000937, AL133640, AF143723, AL389982, AF000145, AF119337, AL133067, L19437, AJ000937, AL133640, AF143723, AK026959, AF111849, AF061795, AF090903, AF151685, A45787, AL133665, AJ003118, I68732,

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HBCAY76	631	862450	1 - 1873	15 - 1887	AL527762, AL527763, BG033859, BF569227, BF527195, BF570204, BF337668, AW962021, AI076793, AI972891, BE019444, BF110354, AI862125, BE549951, AI565789, BE208014, W76105, AI361692, BG149697, BE328157, W72591, AI369826, H79605, AW770937, AI458113, BF344885, AI565656, BG056175, W03277, AA112478, N69449, AW370951, AW370945, AW370952, AW014942, AW370931, H71720, AW370953, R91331, AA773410, AW578714, T34992, AA417749, AW370939, AW014279, AW370937, AA324400, R91290, AA577459, AI675851, AI474427, AI420259, BF593346, H79606, H72285, T23807, AA322599, AI609562, R45437, BE165545, AA236335, H81150, AI696353, AI682500, H56230, AI695166, AA112477, AW370993, AA773411, AI693959, BE698067, AI146575, D19780, AA236241, AW629407, BE165454, AI678074, BE150486, AW084416, AW606005, BE165443, AA632941, and BE150489.
HPJAV04	632	862479	1 - 2380	15 - 2394	AL513848, AL520781, AL520780, AL530383, AL513847, BF529697, AI904904, AW958288, BE260582, BF797027, BE261497, BF306022, BE313588, BG250829, BE378911, BE382450, BE260404, BF310361, BF513467, AA007295, AI955724, AI498159, BE260601, AW849071, AI125267, BE296727, AA004279, BE313057, AW376519, AW578362, AI093868, AI819782, AI003796, AL119155, AI911484, BE645986, BF667093, AI361149, AI904872, AI904872, AW848721, AA742694, AI129352,

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HHIFMA59	633	1 - 752	862567	15 - 766	BF526942, BF034330, BE906856, BG117306, BE871642, BF036429, BE568321, BE729985, BF035689, AW955111, BE271782, BE621432, BF977502, X84712, BF826293, H02682, BE958344, AW405966, R22543, AA477230, AA448786, AV703538, BG250080, BE156569, AW579884, BF695706, BF698225, AW392393, AA186733, BF916201, BF909586, BF695587, AV764128, BF742334, BF742389, H29948, AW794624, R70413, AA311766, AA587630, BF512422, AV763358, AA236039, BE878646, BF813006, AW798114, AA327923, BE785222, BF530141, AF126023, AF126024, M21954, AX018983, AR071323, M21955, AR071324, A38214, I56772, I95540, I58322, I58323, AX031159, AX001082, K02082, M16637, I02355, M20006, M16994, M73496, A48775, M16636, AR091557, and AR091558.
HNFDV96	634	1 - 2990	862665	15 - 3004	AU118050, AL515218, AU124650, AI804495, AL515217, BG254700, BF793291, AU139800, BF221530, BE614349, AU137694, BF793595, AI435930, BG171769, BG120678, AI635319, AI927302, BG036151, BE780429, BE613637, BE883539, BE391223, BE783242, AI802380, BE882107, BE408532, BE222029, BF035253, BF670327, BG026722, AW189345, BG176691, BF690809, BF701218, BE384185, AW138746, AA306135, AW571851, AV758758, AL036570, AW058381, AI859728, BF832574, BF832584, AW410233, AI755119, AW075704, AA418590, BF981254, BE780049, AI984163, AU151135, BF114722, AI961692, AA452161, BE779478, AU149020, AA418574, BE388275, BF103811, AA206679, AI004693, AU153522, AI351372, AW500112, AW261890, AW410234, AW136841, AI634166, AI631474, AA827216, AU128765, AA452392, AW408121, AW500362, BE966378, AU153938, BE349597, AI671386, BE389430, AI380332, AI739557, BE391353, BG248885, AL047192, AI378011, BF796410, AI094228, AA639867, AI568172, AA448963, BF812945, AA447738, AA189112, AA707268, AW341254, AU156536, AI610449, AA680213, AV692709, W27396, AW139700, AW341254, AA495911, AA926753, AW369696, AA455981, T34089, H41985, AA074826, BF379914,

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HNTAI35	635	862671	1 - 503	15 - 517	BE909279, BF806721, and AW887675.
HCE3X63	636	862807	1 - 2681	15 - 2695	AU116945, AW370778, AW748496, BE008566, AL120631, BE012097, BF915504, BF914539, BF915509, BF915619, BF915278, BE012058, BE012056, AI079742, AW908873, BF958427, R60049, BE012090, BE008559, BE012098, BE008567, BE012088, BE008557, BF958428, BF345710, BE008556, AW955385, BE008553, R60111, AA326354, W52864, BF915611, AA843289, AA037392, AW748453, AA584831, AI026996, F13341, T06233, BF349469, AW991423, BF886081, AI041415, T77092, AA477598, BF886817, BF953670, BE703584, BF946647, BF886490, AW991625, AA477470, AW582628, AI906119, AA349458, AI953575, AW957190, BE894127, AF234887, D87469, AB028499, AB011529, AF031573, and Z96419.
HCE2K01	637	862851	1 - 1565	15 - 1579	BF348587, BF317233, BF347922, BE262234, AI886854, AI564810, AI571772, BE260801, BF947408, AA620986, BF348199, AL118922, AW964855, W56893, AI948418, BF590647, AA682932, AI197966, BE832972, H38493, R88493, AW139827, AA984456, AI816315, AW160990, H38543, H30751, H49766, AA604007, BE383259, R88620, AA326352, AA324912, AA326240, BF959580, BF957744, H38473, AA323285, AI565716, AI027311, AI369823, H51158, R89653, AW964663, BF928045, BF445694, AW904314, BF957741, AW896684, AW896682, AW904318, AW875497, BF758599, AW896689, R85211, AW888897, BE702414, AI468058, R88628, R88824, H51120, BF206086, AW904306, AW896674, BF967275, H41534, AA622175, BF947811,

HJPCG05	638	862913	1 - 1320	15 - 1334	AB023167, AF190461, and AF044201.
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| HOUFG48 | 639 | 863051 | 1 - 619 | 15 - 633 | U30290, AL137530, AK000344, AL389947, AR083283, I48978, AL133557, AK026526, AF126247, AF119865, AR068753, AL133070, AL050172, AF031147, AL122100, AL133665, AK026633, Y11254, AF015958, AL133015, M85164, AB047941, AL096744, AF017437, X99257, AL133655, AL133049, AK026870, AJ299431, AL049423, AF090900, A03736, AF057300, AF057299, AL050149, AL133608, AK000160, AL080118, AF130056, AF119875, AL110296, AB041611, U51123, AL110269, AJ131955, AK000083, I22020, AL137529, AL050143, AL389935, Z97214, AL110218, AL133637, E03671, A77033, A77035, AL133053, AK026630, AF130099, AL133113, AL122104, AK027204, AK027210, AF254119, X93328, I89947, AF217972, AK026541, E12580, AK000074, AF090903, AF090901, U80919, I77092, AL137267, AK026600, AL137657, A65340, AF119896, AK000432, AF111851, AL359583, AK025209, AL137459, AB049852, E06788, E06790, AF061981, E06789, AL389982, AF002985, AF155148, AL122110, AR020905, A57389, AB048921, AJ006039, AF106657, AR034821, E02221, AR038854, AF013214, AK024588, U83980, AF087943, AF218005, D44497, AR038969, AB007812, AK025113, AF130082, AF004162, AL133565, AL162004, AL133325, AC007869, AB049892, AF119883, AF119899, AF130055, AL122116, AL110196, X80340, AF115392, AL122045, AK025258, AL080147, AL080150, AL161964, X59414, AB052191, E13998, AK026857, AL137537, AF116698, AL133559, AK025407, AK026894, AL049283, AK026744, AF119909, A93914, AF130105, AK024986, AF026124, S77771, AK027016, AL122101, AL133014, U78525, M64936, AF130110, AF116573, AC007172, Z30970, X00861, AL133560, AF169154, A32826, A32827, X97332, AF067790, AL137627, AK026647, AB016226, X66862, AK026086, AL137478, X52128, AK025119, AL137554, X70514, U62807, AB044560, U83172, AL137254, AK026038, AL110222, A18777, AL122049, AK027116, AK024594, AF002672, AL117587, AF153205, AK024944, AL137558, AF119843, AL096728, AC004213, AL353999, AC012312, AL355136, AC007383, AR050959, A08907, I48979, I80062, AF130066, AK024992, AK026528, AJ000937, AF217966, AL122050, AK025356, AL133640, AK027082, E12579, AF197929, AF141289, A08913, AK027173, AF159615, AF111849, E15324, AF242189, AF058921, AK025465, AF032666, U88966, AK026631, AK024570, AL050024, A76335, U13676, and AB047947. AL527589, BF794114, AV703898, BF313749, BF976305, BE731608, BE736480, BE889614, AI086605, BE732710, BE741473, BE614673, AA654791, BE259354, BE615687, BE890833, BE539810, BE747138, BE899259, BE732930, BE313748, BE898888, AI937040, AW027344, AI808796, BE256852, AI992050, W76599, AI401654, AA583061, AL527588, AA843815, BE745311, BG109908, BE336680, N84979, T63208, BE176971, BE176808, BE176933, AA380008, AA931892, AV686812, AI950961, H16414, BF677458, BF727273, BF726963, D30831, AI312676, AA889272, AI040841, |

| HSSDP38 | 645 | 863587 | 1 - 2157 | 15 - 2171 | BF967580, BF967599, BF526188, AI201607, BF347782, BF347262, BF346349, BF344692, BF530969, BF967523, AW377114, AI380537, AW952364, BF526255, BF969554, BF340682, AW157774, AI655912, BF528672, BF337285, AI879403, AII46748, AW204763, BF345109, BF530197, BF338932, AA706731, AW192741, BF967527, BF439896, AI674046, BF920220, BE645169, BF793156, BF529160, AW305252, BF529454, BF341160, AI580912, AI093152, AI460044, AW518907, BF431045, AA020862, W74452, AI878845, AI742079, AA782477, AW304006, AW136664, AW182997, BF923745, AW025364, AA835372, AI879662, BF528195, AI358939, BF923742, AI801946, AI422201, AI422239, BF575097, AI813356, AI336011, AA855013, AW451024, AA994673, AI498532, AI879304, AA017448, N46229, AI879683, AA725298, H43994, AI923364, AW163815, AI628011, AI277994, AW779817, BF923741, M62142, AI274904, AA019649, N62584, AW291437, BF932212, AI825784, AW090126, AW664106, AI366522, AI867321, AA021022, BF345971, AI802620, AI564495, BG055946, T09222, AI880155, AA774613, AI251820, AA025827, W27282, R84717, AA196540, H61679, F18965, AA536168, N80357, AA971702, BE715030, R99829, F28976, N36677, F24866, AI872630, N58522, R84386, AW514001, T31078, T33821, AI027412, H40692, F28382, AI579966, AI287460, H48592, F31898, AW608550, F24298, W27947, BF925436, H46851, T08543, BG055765, F25936, F20433, AA971308, AA700037, AW236878, BE714967, BF345888, AA025741, R93674, T03744, BF447454, R84387, T31153, H86297, H50177, AV726306, AI193426, F24508, R52608, F20451, AA724499, H46765, F21806, BE172761, F19090, AW895728, T30953, AA772522, R87477, AI469512, M78856, BE698989, H51601, H26405, R85676, AW381187, H84842, AW779221, AW895991, F27265, AW901702, AI492433, R88151, F35865, AI207927, T09010, AW901701, R49676, AI025838, R95717, F25563, AA013333, F19151, AI422192, AW895865, H48869, F26087, R52551, F26962, AI207933, BF924860, R35374, F17747, AA973196, BE677661, BE937930, F27211, T78639, T35800, F19034, AI244373, H49926, Z24921, BF826839, F17022, Z28454, AW079644, R88676, F23472, F26519, R49897, C04550, R50243, F27566, T67453, T64238, F23469, R18563, F20879, AI680629, Z42395, F22691, AA602822, R95716, AI016675, BF927277, BF935247, H14238, H43995, T79124, AA602753, AA603005, BF930964, T30012, R50710, F35531, AI671225, AI613030, BG059642, H30752, BF594287, BF221861, T08807, T07601, AA677640, AB033074, AF159092, AK024521, AB033921, AX047063, AF217994, S68736, AF218031, Y08991, AI419113, H85846, BF924860, BE715030, BF927277, BF935247, AA013239, BE714967, AA909921, AW183974, BF109146, BE825860, T64238, R49896, AI879282, R85145, Z42395, BF922544, BF927986, R88676, BE762881, BF337285, T09222, BE762858, AA975546, AW351521, T33821, Z20535, BE826801, BE185592, BE826989, BF967523, BF675155, D56053, BF347813, AK024521, AB033074, AF159092, and AB033921. |

HSSGL44	646	863654	1 - 2942	15 - 2956	Y11505, A91160, AR011880, AC068130, AP001624, T59473, T69486, R11417, R05821, R19167, R41430, R41430, R73505, R73506, H14237, H17971, R85091, R99828, H72275, H85846, H85914, N46228, N54065, N78113, W20020, W72768, N90531, AA017447, AA019648, AA533780, AA564891, F15609, F16828, AA917485, AA917691, N55649, N56356, N89302, AA092716, F21135, Z20535, AA909921, Z28942, Z28943, Z38602, Z41957, F01473, T59417, and F00553.
					BF026630, BF525472, BF311757, BF026375, BE315200, BE384236, BG029678, BE728846, BF027355, BF207367, BF311466, BE391121, BE385559, BG249240, BE889845, BE746346, BE384507, BF314019, BE514952, BF316610, BE387027, BF026515, BE385753, AW958716, BG034358, AW387756, AW387777, BF311701, BG166348, AW058655, AV712812, BF434690, AW387790, AW387823, AW387881, BE205929, AW387875, AW387818, AW387759, AW387863, AW387885, AI885199, AW387879, AI696938, AW387882, BE206444, AW576420, AW387835, N27479, AA457045, AA004840, AI371842, AI753132, AI243820, BE391643, AI401039, AA042937, BE208742, AI620938, N21206, AI075795, BF951267, AA827532, AW952741, AA961462, H17738, AW818342, AI138762, AI124836, AI752279, AA401155, AA456889, AI702256, R72316, AA400981, BF508433, R59036, AA043037, AI038154, AA251449, R72279, AA429858, BE392526, AA081310, N99653, AA026365, H08163, AA679413, AW502829, N71703, AA338257, R58972, AA081311, BF764044, R34391, BG152425, AW050971, AA687186, AA730076, H08262, AA251361, AA297244, AA306235, AI000974, BG149463, AA298573, AA853018, BF834450, AA853019, AA338258, R91030, AA314525, AA353768, AW263925, H17627, R48929, BF311649, BF087022, AA373441, T86041, AI906978, AA004963, AI570299, AA446166, BE260858, AW452622, AA255575, AA093014, C01841, BF087011, AA340952, AI955058, BF346375, AA026457, H49886, BF437779, AA613298, BF836633, AI932871, AW265688, BG222875, AA804187, H67064, AA610255, AA115865, AA488687, AI281689, AA586433, AW302017, AI185394, AI565084, AW089625, BE328286, AW245354, AA654482, AI446259, R67701, AW265276, AW591304, AA558404, AW382918, BE149998, AW946882, AA654778, AW962611, AA525331, AW392414, AW023111, AV759971, AA515924, BF766147, AW188742, AA429481, AI054339, BG057207, AA533054, AW511778, AA857812, BF942349, AA356376, F00533, N30016, AV758067, AI653999, AW408756, BE739933, F31951, AA862029, AA666295, AI873627, BF934628, AI254779, BF447405, AA598605, AI564675, AL039309, AI359200, T07225, AI923052, BE002964, AW272815, AL137946, F35684, AI590442, AL022312, AL365515, AK000239, AK026539, U02047, M87889, I34294, AF205210, AJ224877, AJ012824, AC004790, Z70289, AC008126, AC006277, AL390014, U95739, AC008745, AL049829, AC005598, AF064861, AF003626, AC004253, AL499628,

| HBODY10 | 647 | 863665 | 1 - 926 | 863665 | 15 - 940 | AC005023, AP000359, AL035684, AC011455, AL138787, AC002394, Z84813, AC007731, AP000270, AC005500, AL031985, AC007227, AL023494, AL022316, AC002300, AL162424, AC007722, AL133409, AL135927, AC005907, AC005796, AL390037, AC004675, AC026704, U52112, AC008753, AC011442, AC005323, AP001052, AC004890, AC008616, AL356379, AL118520, AC002037, AL159972, AF196969, AC007199, AC005206, AC006961, AL021977, AC004753, Z97054, AL021578, AL031727, AL356010, AL136296, AC006057, AC005667, AL353653, AF088219, AC011470, AC008050, AC005057, AL133395, AL031659, U94776, AC005274, U53930, AF314058, AC004386, AC007216, AL159997, AP000032, AC005081, L44140, AC008738, AJ003081, AL034405, AC004659, AF112441, AC004000, AC007954, AL034550, AL031291, AC009362, AC011475, AL022327, AC005823, AC006241, AC005786, AL117186, AL021707, AP000694, AC005996, AL133454, AC002418, AC024168, AL049653, AF051976, AL078476, AP001752, Z97985, AC008762, AC018663, AC002546, AC005844, AL009031, AF031078, AC002350, AC007172, AC003098, AC002310, AC002326, AC022073, AC004824, AC007052, AC005291, Z99716, AC004079, AC010412, AC007160, AF030876, AC004089, AC009756, AL136135, AL117382, AC067969, AC005520, U95742, AL445644, AL163279, AC005777, AC005288, U93305, AC005480, AL109627, AC004922, AC004148, Y14768, AC005837, AL353617, AL121825, AC004778, AP000313, AC006372, AC005175, AL355871, AC004851, AC004605, AC003690, AC007226, AC002369, AC004594, AC010789, AL121758, AL022721, AL031680, AL132874, AL161937, AL121890, AK024602, AL354720, AC011495, AC005197, AC006040, AC005914, AK022034, AL163249, AL031120, AL137839, AL133211, AC008392, AC005775, AF196779, AC005581, AL035090, AC023490, AF134726, AL135939, AC011548, AP000503, AC011299, AC009086, AF258547, AC010737, AL121658, AX033915, AP000050, U75931, AC007269, AC000090, AC005722, AL137022, AC002117, AC002470, AC020904, AC005015, AC006345, AC005222, AP001714, AC007792, AC008747, L14561, AC004702, AP000128, AP000206, AC008521, M98511, AC004024, Z98257, AC006049, AL137162, AC027319, AC010422, AC011479, AL391384, AL121890... AL022476, M87890, AC018720, AC007649, AC008812, AL035398, S42652, AL031311, AC002558, AC005784, AC007280, and AI055801. |
| HDFUB58 | 648 | 863687 | 1 - 2091 | 863687 | 15 - 2105 | BE298619, AI742370, AI951803, F21858, AI094102, AI091054, AI374599, AA644519, F26878, F36653, AA993801, F34314, F19543, AI239603, AI039195, AI425024, AA182915, BF671086, F32505, AA970455, F25446, F26950, T11964, AA181506, and AL136295. AF010244, BG026299, AV752955, BE670307, BF436052, BF038892, BE464799, BE671255, BE042892, AI866576, AW770582, AV725085, BF326818, AI557322, |

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HSMBE70	649	863709	1 - 898	15 - 912	AW015347, AI799000, AI376288, BE502146, R89028, AA171608, AA970651, AW876870, AW877590, AW840350, BF361437, AW363754, AW877589, AW877588, AI802649, AW877706, AI915514, AW840419, AA402637, AA745819, AW840429, AW840358, H43394, AW937209, H47689, H71857, AW934824, R73186, H14457, AA243018, AA171767, AW840513, AI751358, BF349078, AW877627, N46833, AW341834, AI823932, AW877671, AI083608, BE070521, H71862, H47604, Z43234, H71746, AA236513, AA402673, BE504959, AW937211, AI350267, H90124, H72309, AW105147, BF792271, AI174661, H90928, AW270454, AI751357, H90033, F02687, AA247903, AI239443, H43340, BE070715, BG121536, AI982804, AA376476, H08573, H71070, C00687, AA376351, BE002413, AC008952, AC008838, and AK025909.
					AI090012, AL048304, BE538120, BF448592, BE464841, AA040831, AI982813, AA043447, AA502368, AI344358, BE697269, AI344536, BF851861, AA043448, AA040167, AW183007, AW674670, AI570653, AI864266, H27959, AA564261, H27958, W86977, AW050696, AI302319, AW197920, AI624520, BE162330, AA247896, AI472445, and BE536754.
HEPAA94	650	863718	1 - 964	15 - 978	BE177934, BE178118, BG168943, AW952560, BE467261, AW069580, AI890128, AW273443, BE502256, AI744746, AI379922, AI032260, AI522079, AI279840, AA281064, AI879924, AI217814, T66144, H11614, AW194179, R55295, AI085109, R55392, AA335275, N99235, AA257070, F09767, AA257163, AW972958, AW206093, AW293807, BF769935, AI669914, C02264, AA988919, AA357316, AI699614, BE936621, R47297, BF037710, AW881403, R08134, R08135, T97734, R24628, R41750, R46652, R41750, R46652, R68465, R68466, R81013, H00897, H13892, H21049, H26608, H26653, R93132, R95021, H89625, H94620, H97545, N21102, N25341, N25577, N27942, N31115, N31456, N33414, N40704, N41557, N42388, N57163, N70491, N71098, N79839, N80214, N98397, W04860, W05841, W07170, W33185, W37251, W37341, W37342, W38453, W38503, W40194, W42493, W42643, W46428, W46463, W52071, W67206, W67350, W69599, W99307, W99396, AA029338, AA029339, AA040361, AA040360, AA071515, AA082292, AA112326, AA113135, AA131702, AA131708, AA131613, AA131609, AA181802, AA186552, AA192745, AA192818, AA484255, AA488862, AA488939, AA507933, AA515025, AA522553, AA523060, AA564095, AA564096, H89479, AA627461, AA639412, AA576846, AA669117, AA760790, AA766125, AA826436, AA825268, AA865450, AA873853, AA876949, AA903215, AA917384, AA928523, AA928935, AA935187, AA935336, AA969528, AA972750, AA973237, AA995522, C01348, R29421, AA435599, AA443738, AA476787, AA716513, AA719184, AA723202, AA724010, AA724888, AA724928, AA782195, AA846351, AA772446, AA860990, AA860997, AA860073, AA890241, AA890374, AA973207, AI026162, AI038801, AI050951, AI057524, AI074987, AI086726, AI087199, T25768, T25871, AI245494,

AI302436, AI302531, AI306429, AI309295, AI350164, and AI360748.

					Sequences
HHECU86	651	863734	1 - 725	15 - 739	BG177485, BG177377, AW068821, BF340963, BE735271, BE734125, AW629902, BF795298, AA179850, BG024965, AA347950, BF885987, AL040673, BF887193, BF886931, and AF132937.
HBXGQ49	652	863848	1 - 2025	15 - 2039	AI939620, AI480056, AW300620, AW300615, AI589129, BF920454, BE386438, AI911546, BE386547, AW961851, AI361251, AV726263, AI498527, AW901919, AV725146, H41544, BE967591, AA326679, AI422476, AA348503, AA912288, and AI423129.
HCECL08	653	863887	1 - 1420	15 - 1434	AI800075, AI686505, AV726613, AW023374, AA418208, H97489, AA620395, AA418073, AW027850, N67776, AI168759, N36146, AA700811, AA401879, N28007, AW952793, AA012999, AW904436, H99095, AI015805, H82563, H60753, R87427, AA688368, BE702596, H59689, R85022, AI582759, N35665, AA205528, W03403, H83667, H83666, AA322820, AW072108, H60754, R07653, AA339201, R07706, N26551, H59688, N69337, N88280, H84836, BE744699, AA640177, AA210112, AA094140, AB025904, AL138795, and AL138795.
HUCOT09	654	863914	1 - 3282	15 - 3296	AL528723, AU123584, BE745581, BF312700, BE741050, BE795735, AU122587, BE743660, BE741283, BE856746, BE742232, BG254329, BE886473, BE792958, AV656238, BF309893, BE313618, BG119782, BF038125, BG105929, BE908612, BF966056, BF037974, BE740993, BE868776, BE314204, BE883039, BE867958, BE886582, BG179301, AL135110, BE268862, BF983158, BE311448, BF825757, BE514967, AI138612, AI084786, BE536600, BG181025, BE255081, BF828617, AA122281, AI857642, BF828799, BF826814, BF037337, BE300994, AI814439, BF308933, AA576976, BE255064, BE314324, AW953203, BF240560, AW007758, AA291860, N36325, BE887297, AA614328, AA758326, AA398266, AA705821, AA879205, AW029132, AU148132, BE810276, BE179970, AI131062, BE259170, AI222818, BE169650, AI935132, BE392210, AW070541, AI624257, AI694240, BG236028, AW194445, AW103797, AA196651, BF725300, BF690320, AW517068, AU146225, AI582213, AI435143, AI360344, AI394500, AI688349, AI582376, AI690569, BF795416, BF111964, N29984, AI860428, BE292928, AI160318, BE179846, AW194430, AW264570, H58349, AI950515, AA410748, AI952259, AI754189, AI813910, N32745, AI504011, AA434488, AW008344, AA643227, BE312315, AI879588, BF087137, AI869669, AI351136, AI497687, AA991796, BF438467, AI299383, W80788, AW027186, AW130354, AA350146, AA434392, AI948642, AA428653, AA565934, AW733015, N26961, AA878173, AA477509, AA477094, AA432338, BE746827, BE838132, AI057169, AI372449, H07102, BF911970, AA213414, AA731192, BF087761, BE675270, AA765797, AA804972, BF088377, AW780293, AI016933, T33461, AA399437, AW591234, D12098, F24523, H70959, AI868018, R44093, H73091, BE838094,

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655	HYBAF24	863934	1 - 649	15 - 663	BE793846, BE513607, BE790851, BE795342, BF689981, BE730258, BE735825, BE903214, BE265249, BE267419, BE740614, BE742662, AW247577, BE727175, BF026122, BF732877, AW247732, AA148228, AI751446, AW008969, BE798194, AW069303, AI394269, AI797289, AA316485, AI750270, BF026858, AA996071, C05230, H41429, AA159378, BE793469, AI278793, BE958392, R62171, AW263105, AA248589, AA613553, AW009897, AA960959, BE799132, AI026967, N30347, AA158337, AA131464, BE267114, Z40848, Z36872, T36130, T34155, R81681, BF880011, N93270, AI541453, AI383153, AA837473, BE814767, D56451, T69473, D56220, BF879857, BE903639, BE263036, W33202, C03927, AI783931, BF879695, AI560479, BE393241, BG170115, BF125876, AK024765, AF197937, AF116692, and AL136116.
656	HEMET46	863977	1 - 2569	15 - 2583	AW953081, AW070211, AA464807, AW391174, AI333225, AA770661, AA081335, BE219696, AW665724, AA431894, AW582203, BF104732, AI338446, AA426155, AA486620, AA426230, W31695, AI400254, AA186695, AA347390, AA426573, AI051414, AW771545, AA425620, AI301726, W04527, AA918383, AA487066, N36136, AI374976, N66734, H88205, AA297537, H87975, AI631919, AA188323, BE167291, BE167284, BE677286, BF821835, N44141, H88157, AI206014, AV749192, AA297524, AA248250, H88204, AW681211, AW438654, AV748234, AA090513, AW772577, AA090419, AX035213, AF205940, AK026875, AB034695, and AL133118.
657	HFXJM86	863982	1 - 1853	15 - 1867	AL138080, AL138081, BG056111, AW117532, BF724275, AI885223, AW051808, AI332809, AI564820, N63569, AW207494, AI866785, AW148811, AI954565, AI199326, AI199105, N38888, AI243422, H09138, AW381536, AI986175, AI991904, F31192, Z18300, Z25110, Z28916, AW381528, Z41646, AI954371, N38887, AI033629.

HDTHL37	658	864023	1 - 1810	15 - 1824	AW381480, F25740, Z28784, N94825, F00372, AW380848, F16581, AW381481, AW381481, AA197180, AW104762, BF887537, AB042554, AB032999, and AC006059.
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HBJFE32	659	864093	1 - 854	15 - 868	AF136278, AA883083, and T18566.
HSLDY71	660	864179	1 - 822	15 - 836	BE791591, BG180876, AL040387, BF035302, AI288666, AU129230, AI658486, W02852, AU129185, AW136080, AU119473, BF241478, AI636247, AI609935, AI798914, AI023382, AB037850, AK022906, AK000668, and AL117434.
HULFN21	661	864272	1 - 721	15 - 735	AL518393, AL522644, AW953904, BG180896, BE221763, AI693243, BE220100, BE885876, AI085705, AI554530, AI222170, AI417191, AI858625, AW363027, AW753943, AL525061, H64836, BF980553, H64835, AA372615, F12236, AA864323, BF239098, BF185076, AL518394, T66397, BF185001, AA705267, AI684882, AL045195, BE795832, AK025968, and AB041610. BG176952, BG119766, BE906508, BF315405, BF796929, AI360274, AI037855, AW962725, AW007497, AW082995, AV755472, BF594004, AW161413, AW156931, BG166964, N21474, AI554100, AI214257, AI478780, AI222821, AI653431, BG248818, AW084500, AI453168, AI806688, W63672, BG028373, AI434287, BE858543, AI127538, AA649068, AA773025, BE904459, BE858816, AA314274, AA724824, AI800951, BE407567, AA581734, AW162184, AI148356, AI685414, AI023940, H50099, AI831484, AA992634, AI279472, AI364371, AA027848, AA488943, AA488865, AA826437, W60232, H41639, W74733, AI337789, AA936903, N35097, AA469467, AA044621, AI141455, AI123011, AI828794, AA854512, AI150124, AA835872, AI718955, N20569, R77458, W69967, AA976010, AA922961, N91253, AA568890, AI221519, H39206, AA128350, AA879143, AA706573, AA027881, AA593835, AA815338, AA613060, AA286860, BF683095, F36916, AW005313, AA149210, AA149209, AI377018, N24682, N36660, AA467797, AA314917, F22231, W61084, N28955, AA897642, AA055651, AA401043, F28697, AA916716, W35170, AA400991, AI459613, AI264839, BF245948, H91964, AI183792, W70117, AW951971, F32049, BE781599, F21332, W19907, W60231, R77554, AA455025, AW474305, AA873439, H03117, AA483989, H50142, AA716117, AA978038, AW182103, H40085, F30898, W74540, AA128474, AW511963, AA335268, AW962727, F23477, N92608, AA906647, F29182, AW879581, AA455832, F29976, F26793, BF732750, F26857, AA300070, AA602800, R48819, AA369626, R48820, AA742758, AI719367, W39126, F32886, AA523612, AI014895, AA300069, AW418783, AI825594, N43840, BF223245, AI199049, AA937249, W20394, F37930, F28674, BE163986, AV738486, AA888678, AA055707, AA921866, D19857, BE840678, BE840480, AW268072, AI873613, AI343037, AI345397, AW301300, AW075207, BE138658, BE138712, AI313320, AI344928, AI366974, AI345416, AI345612, AI345111, AI349967, AI307503, AI349028, AI309431, AI310575, AW074993, AW071380, AI345114, AI345615, AI312152, AI345735, AI307543, AI308032, AI345224, AW072485, AI307494, AW303089, AI307520, AV743962, AW071362, AI307526, AW302965, AW072484, AV744136, AI336654, AI307507, AI336503, AI34913, AV738991,

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AV739574, AI345251, AI366968, AW075084, AI345467, AI318254, AI340664,
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A08916, AF100931, AL050024, AF166267, M86826, AL157479, AL080158, AL442072,
AF227198, AF130066, I89947, AF118064, AR029490, AF118090, AK000083, AL023657,
AF130077, AR038854, AK000618, AK026626, A08913, AK027114, Y11587, AF119896,
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S78214, AF175983, AF116610, AF119871, AL117649, AJ012755, AK026593, AR011880,
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| HCRPE50 | 662 | 864273 | 1 - 678 | 15 - 692 | AK026452, AL137533, AL353940, AF016271, AL137658, and AL359620. BE906508, BG176952, BG119766, BF315405, BF796929, N21474, AW962725, AW082995, AV755472, BF594004, AI360274, AI037855, AW156931, AI554100, AW007497, AI478780, AI653431, AI453168, AW084500, BG166964, AI806688, W63672, AW161413, AI434287, BE858543, AI214257, AA649068, AI222821, BE858816, BE904459, BG248818, AA581734, AI148356, AI023940, BE407567, AI685414, AI831484, H50099, BG028373, AI127538, AI279472, AI364371, AA773025, AA488943, AA488865, AW162184, AII23011, AA826437, AA724824, AA854512, AI800951, AA314274, W74733, H41639, AA936903, AA469467, AA992634, AA027848, N35097, AA044621, AII41455, AA835872, AI718955, N20569, R77458, AA815338, AA976010, W60232, AA055651, AI337789, AA568890, AI221519, H39206, AA706573, AA593835, AI828794, AI150124, AA613060, AA314917, AA149209, W61084, F36916, AW005313, AA149210, AA128350, AA467797, F22231, AA027881, AA897642, F28697, AA922961, AA286860, W69967, AI377018, N24682, N28955, AI183792, AA879143, H91964, F32049, W19907, AA401043, R77554, N91253, AA916716, N36660, W35170, AA455025, AW951971, AA400991, AI459613, AW474305, AI264839, AA873439, BE781599, AA483989, H50142, AA978038, F30898, BF245948, W70117, N92608, H40085, F21332, AW182103, W74540, BF683095, H03117, W60231, AW879581, AA335268, AW962727, AA128474, F29182, AA602800, AW511963, F29976, R48819, F26857, F26793, BF732750, AA300070, AA906647, AA716117, AA455832, R48820, AA742758, AI719367, AA369626, W39126, F23477, AA523612, AI014895, AW418783, AA300069, AI825594, F28674, N43840, BF223245, F32886, AII99049, AA937249, W20394, F37930, BE163986, AA888678, AA921866, AA055707, AV738486, D19857, AI873613, BE840678, BE840480, BG029053, BF726237, BF968910, BE785868, AW151136, AW082594, BE536058, BG164371, BF812933, BF341801, BE048071, BG120816, BE047737, AL041150, BF814420, BG249582, AI269862, BF816037, BF970449, BE047852, BF338723, BE876033, AW827276, AI364788, BF038131, BG256592, BE880182, BF822127, BE874133, AW673679, AA225339, AV727776, AW071417, BE880674, AA715307, BF924882, BF970768, AI580290, AL036548, BE965060, BE859464, AI805688, AW772685, BE879516, BG030364, AW827289, BF032768, BF339322, BF032910, BF814357, BE047952, BG034550, AI288305, BE968711, AI597738, BE246734, BG031815, BE964876, BG179993, BG026428, BG036846, BF968541, BG032208, AI698401, BE910373, AI627880, AL045500, BE622183, AI284131, BE887488, AW827103, BE904178, BG251104, BF527014, AL045620, BE877769, AV715354, AK000501, Y08702, AK024538, AF217987, E04233, AK024524, AK025906, AL133016, AF111112, AF218014, AL133568, AF113690, AL122049, AL162062, AL389939, I48978, AB052200, AF116676, A08916, AL050024, AF166267, |

HDTLL66	663	864279	1 - 1236	15 - 1250		
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| HWDAF64 | 664 | 864349 | 1 - 1592 | 15 - 1606 | AV754408, AI720901, AA496681, AA995328, AI032868, N24442, AII86312, AW579254, AW135010, AI660672, AII88938, AII91317, AI332586, AW000829, AA420567, AII25390, AI969715, N23673, AW182893, BE312355, AII41484, AW000718, BF102532, AI219152, AA815421, AA843102, AI023128, AA159902, AA427691, AI470155, AII27280, AA708211, AII42324, H93124, AII86000, AI587141, AII47588, AII28437, AA723220, AI335350, AII29253, AA995933, AI087415, AA290635, AW300769, AV724436, BE349483, AI673417, AA129884, AI241459, AI355685, AW304225, AA471213, AA315771, BG117664, AW083014, AI277068, AA552070, AA862543, AW008043, AI268069, AV706639, AII60884, N58266, R68241, AI828898, AA774420, AV705947, AI093015, AV707544, AI038096, AA732834, BF687940, AA810159, AI934627, AA026633, AA844949, AV735174, AI096712, H84951, AI279658, AI969153, AA419151, BF665006, AI798245, AV729015, N95063, BE407927, AA149944, AA653091, N69652, AW104010, AA159798, AA771923, H20023, R99610, N71609, N33986, H20143, W37128, W04866, AW130386, D55334, H40779, W01678, AII25700, BE091971, AA572869, AV743438, H50207, AV736793, AA157561, AA531221, N70496, AA969778, AI744165, H95780, AI159958, BF977248, AI680770, N77862, AA037790, N92248, AI275921, N38815, AA305332, H21165, R71518, AI752109, H20098, AA937128, AA478395, AA962124, AV738026, AV740102, AV743648, R94908, BE621803, R77435, H99652, H18782, AA641831, AA694460, H19070, AW511932, AII84349, W40195, AA844297, H46188, W38900, R71470, W58208, N94261, R70469, H01343, BE909620, T31343, H20238, AA165011, N25251, BE620993, AI752110, H23656, AV741494, N72206, R77524, AA037789, R70556, AA643896, R92265, T30654, H67121, H71491, AV741554, W32075, W00449, AA326924, H38970, H69010, R91937, W37143, H50206, C01763, H60231, H18688, R09629, BF436567, H75393, H27857, R94992, AA558120, AA305400, R99715, H23612, H39170, R09517, AA326929, H01135, AA026672, H46187, N54428, T32463, AA339137, H59520, AA186949, N33887, H22402, AI709334, AF078861, AF151898, AC010422, A74952, A75027, A75031, A74945, T52716, T61025, T61577, R24626, R26656, R68534, R79694, H01394, H03302, H03303, H03402, H18972, H22368, H40075, H46478, R86746, R87112, H60187, H60393, H71551, H71623, H81427, H84494, H84495, H93252, N24542, N58289, N71651, N76257, N77644, N77658, W04664, W31583, AA150561, AA157861, AA164972, AA188345, AA419096, AA427690, AA420519, AA558240, AA558388, AA729082, AA838275, AA911445, AA936992, N54442, N56089, N75288, N90112, AA291042, AA410643, Z20719, Z20726, Z20816, Z20820, AA860968, AA888906, AI022530, AI078696, and AI298691.

AI859773, AI742029, AI685738, AI819810, AW082064, BE840167, BE840005, BE671043, BF973231, AI376066, AI459167, AI361641, AI076881, AA991356, AI870728, AA913664, BF371773, AI362847, AI625523, AA243783, BF875299, AW008550, |

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Name	No.	ID	Range 1	Range 2	Sequences
HETIF10	665	864357	1 - 2037	15 - 2051	AA243768, AI055800, T59160, T10119, T09443, R19699, AA804259, T10118, T59198, BF540805, C01164, AW051639, R44256, T35738, AW474314, AI784617, Z43979, Z40037, BF508398, BE840054, AA913198, AW474325, AA027979, AI625526, AI870121, AA027980, AW845226, AI082717, AA617910, F33218, T24580, AV758455, AW196161, AC005585, AC004997, Z79948, AK025113, and AK025798. / AU123966, BF792749, BF037359, BF984791, AU136685, AL041265, AU133918, AV655687, AA029276, BE082643, BE883009, AW015848, BE549266, BE326761, AA436376, AI809197, W37315, AA449544, AW173125, AV687145, AA424456, BE737009, AI768591, AW052025, BF941513, AU145073, BF724398, AA497127, AW197647, AA868251, BF880936, AW955407, AW959988, AA813941, BF432619, AU155078, AA885319, BE973576, AI588927, AI376992, BF475344, AW629030, AI672284, AI083554, AA449110, BE463702, AI669820, AI023470, AV726963, AI042075, AI201848, BE934146, AI188925, AI500297, AA497050, AA236326, AI168273, N32425, AI375372, AW874582, AI188562, BF111377, AI761601, AI961121, AW088258, N56847, AI361549, AA236260, T51928, AW771637, AI431458, AI097553, AI187005, AW183545, AI242321, AI141273, AA424411, AU156591, AII42573, AW881125, AI032543, N56987, BF761828, BF762678, BF445509, AW236707, R51141, AI376513, R52093, W26719, AW009278, AA865899, AW469765, AV653982, AA424816, AU136681, AW014014, BF516119, AI307295, R52187, AA931811, BF828274, Z45509, R21073, AA481309, AL041264, BF725099, H72731, BF761822, Z41201, AA808867, BF764776, R44838, AA992217, AA654910, BF760934, H72732, AI370687, AII83333, H44383, AA337239, AI095550, H80017, N47372, H39995, AW517839, W32303, H01128, AI914542, BE247185, AI221230, BG236418, R51033, R76738, AA365326, AI869591, AA364612, AA359636, W37830, AA319331, BF772808, H80018, R20023, T51718, AI073556, R76399, AW118516, AA495856, AA778843, AA732874, AI906897, BF360540, AW393465, BF916387, AV708158, AA190535, AA906512, AI206962, BE840455, X93832, AU118619, BF038985, AK023325, AP000533, AF147339, and AK021673.
HBAGJ74	666	864391	1 - 400	15 - 414	AA026609, AP001725, and AC023510.
HT5E85	667	864392	1 - 821	15 - 835	AU123484, BG116908, BG116970, AU120475, AU134332, BG030323, BF345356, BG255249, BF685509, BF345482, T08102, AW008528, R23549, BE793684, BE675709, AI817029, Z46040, T78129, BF058320, AW673003, BE410393, AI971760, BF205217, BF732738, AU131260, AA286944, BE386237, BF025953, BE390969, AL535162, AW166573, AK023162, and AC083864.
HKAKL77	668	864545	1 - 579	15 - 593	BF665670, BF967372, BF700126, BF701222, BF698599, AL519982, BF698090, BF980780, BF700291, AW960010, BF665302, AL523974, BF244116, BF670196, R64612, T65609, BF665033, BF792179, F11871, AA366080, T77162, T83570, N28835,

HCFBY67	669	864566	1 - 436	15 - 450	AA319227, AII84691, Z42686, N45593, BF686055, AW381572, N28565, AA279404, W47016, AU128983, AA995357, AL036932, AI681856, N85113, and AK001453. BF185265, AV753027, BG236401, AA430271, BF196848, W52443, AL522976, AI963267, H71660, N57270, BF568872, AW080093, H02975, AII84163, N41702, AA354805, AA835802, AA535338, AW021005, AV743200, W07198, AL522977, AA812397, R68940, BE728887, BF026265, W52721, AI423101, BF026624, AW003853, BE783839, AI372075, AI096511, BE205808, AA179520, BE902516, AA777020, AW276383, AA994803, N79712, AI870199, AII48872, AI870599, AI739030, AI341570, AW005668, AII49470, BE786718, AI217915, BE781883, AW276121, AW966996, AII29319, N29849, AA931248, AI954169, AW317040, AA210733, AI497942, AW188522, AA487802, BF002732, W15591, BE409428, AW733109, AI209189, AW005839, T64613, W53036, AW192590, AV737406, AA618546, AI922330, AW148966, BF088972, N78608, W53034, AA604432, AA147319, AI453762, N49620, AII84275, AI203618, BF377137, AI241159, AW084537, AA126052, AA772034, AA044614, T52871, AL527415, AA327444, T52870, AII86618, W52389, AA169341, BE298514, AI038856, AI689061, BG036611, AI431668, H71661, AA933756, AA157808, BE122663, AA507263, AI683964, AV744545, AA506581, AI695499, BF685464, W95393, BE409758, AI767053, AA974379, W51825, N46925, AI651851, AV714282, AA485898, H04271, T39215, BF819078, AA668960, AA069002, W95351, BE909812, AI244108, BF793711, AA533871, AA211574, BF846568, AW262814, AI745721, AV737011, BF128849, BE763802, AI963134, BF432351, T64472, AW292194, AI000753, R44489, AI370259, BF975750, AA773889, AI302087, BF818729, BE834116, AA725357, AA648372, BG166261, AA852625, R68829, N72236, AI093364, BE694506, AA973710, BE694500, AA860323, H87180, AI363886, AW732321, AI823549, BF103559, AV699847, N29434, AA782882, AA211628, AI626082, AW751585, AI810911, R76590, AI753240, AI695727, AI356992, BE789511, T32276, Z20741, Z20720, Z20718, AI066799, AW206731, AV738162, Z20833, F20230, Z20853, BF312002, AA377649, AI371506, AW235059, AI913157, Z20826, BF345622, W31668, AA209497, AA195815, AV710593, AI420917, AI978781, AF077037, AX048198, AF144055, AF015947, A74967, A74946, A74944, A75042, A75063, and A75036.
HUCNL85	670	864609	1 - 1561	15 - 1575	AL525170, BF527707, BF970711, BG025370, BE560905, BE382648, BE313171, BG254973, BG111049, BE779962, BG119109, AL530346, AW246354, BF207014, BE273342, BF315469, HI7219, BE396506, AW881720, BE783929, AL047548, BF750956, BE812474, AW581642, BE261945, AW297013, BF677966, BE265009, BF111253, BE812468, AL522955, BF792135, AW296403, R25719, BF926891, H19385, T08867, AA861285, BE812501, AL522956, AA478552, BF344880, BG032567, AA450134, AW370482, BF081399, BF968412, T32904, BF315881, BF836642, BF965787,

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HSDIW17	671	864772	1 - 870	15 - 884	
HHETS46	672	864808	1 - 562	15 - 576	BF976896, BF306663, AI264637, AV738974, AW440517, AV762213, AI289816, BF031831, BE297329, AA308065, BF028464, BF977733, AI087224, AI333981, F22528, BE856896, AI087291, AI042559, N32838, AA101212, BF033741, AA513003, AA127626, AA716353, AA121528, AI208270, W39584, AI024761, AI805206, W44935, BG165592, BF248189, AA448463, AI685445, AA677140, AA045311, BE548267, AI094396, AA932240, BF209337, AA062780, AA973273, AA112905, AA062735, AI911056, BF342886, AA082078, AI347381, AA045417, AV711883, AI832874, AI086794, AA431571, T96692, BG167528, AI890885, AA894627, AA304050, BG235942, AI248836, AA327793, AA302176, AW772595, AA302332, AI350909, T96809, AI283682, AI695634, N42284, AA074777, AI097092, AA704961, AA704993, T97458, BG112065, BF690856, R09226, T97730, BE788922, T97914, AA203274, BF977954, BF690772, AA083929, AV716951, AA331180, AA593102, BG099483, AI540890, AI541321, and AC017002.
HAPSD53	673	864818	1 - 1454	15 - 1468	AI885337, BF038430, AW058242, AW006171, AI683297, BG151539, BE900526, AW170637, AA521253, BE900229, BF435588, AI799163, BE390009, BE222102, BE902789, AI342474, AW269145, BE221483, AI492899, AI339032, BE468188, BF063174, AW403201, AI952141, AI424932, AI652894, BE706348, AA676913, AA846869, BE221137, AI347198, AA622621, AI735209, AW190339, AW204342, AI076551, AW872815, AI347177, BE388652, BG055242, AW964942, AA873834, AA769173, AI769023, T66106, AA936795, AI092935, H05338, R15751, AI147274, H16849, R78720, R48155, R17960, BF063794, AA181878, AA133531, AA889396, R16187, H16741, H21663, T56878, AI191180, F11930, C17879, R43450, AI671901, AA356873, AW593905, H21662, AW207476, AI984277, T56879, F09576, AA505782, AA620362, AA326039, AL531891, AW197945, BE792574, AW888968, AK022948, AC004780, and AC011520.
HAMFW66	674	864987	1 - 455	15 - 469	AA181631, AI903265, BF989794, AW297814, AA419387, BG105915, BE003461, AF271070, and AC016254.
HTJMU48	675	865019	1 - 1106	15 - 1120	AL530369, AL535061, AL533033, AL526905, BE733578, BF026569, BF966291, BE727875, BF981187, BF183255, BF967510, BE272946, BE615953, BF182678,

HAUAE93	676	865020	1 - 821	15 - 835	BE616877, BE272973, BE616777, AW374089, BE615247, BE731063, BE384379, AI214031, AL532487, BE019121, BF983883, AI752151, AL523946, BE835633, AL138133, AW581413, BE241701, BF819501, BE617300, BG104797, BF798681, BE243315, BF358033, BF872811, BF229532, AW380906, BF983957, BF329587, BE872636, BE074050, BF795012, BE906347, BG115718, AW605408, BF988678, BG015701, BG121424, BF980469, AW371243, BF733190, BF230058, AW388721, AW608453, AW373057, BF738922, BF526571, BG253820, BF684157, AU076659, AF037339, D67067, AF037338, AC011489, and AB015172.
HAICK45	677	865026	1 - 2683	15 - 2697	AL531509, AL514522, BF526571, BG253820, AL523820, AL523946, BF684157, BF980469, BG121424, AL532487, BF983957, BE382434, BE886275, BF689553, BF689896, BF944761, BG115718, BF851425, BE743030, AW882041, BG104797, BE617300, BE794829, BF765343, BE940065, AW364990, BF808730, BF951584, AA076557, AI909328, BF947166, R86655, AW392303, BF983883, Z43259, R56493, BE938387, BF358033, AW581413, BE843795, BE933378, BE936805, AW886746, BE937970, AA005246, AW602670, W27475, AW365079, BE074050, T81955, BF822519, BF091955, BF799596, AA731294, AW663033, AI032686, AA102176, AL526869, AL535061, AL533032, AA767618, BE615953, BE616777, AI214031, AF037339, AF037338, AC011489, and D67067. AU124026, AU125556, BE783093, BE795410, BG250051, BE783631, BE670928, AW294122, BE006510, BF110609, BE777779, AI133682, BE893801, BF816694, AI681449, BF815559, AI697810, AV752626, AW364876, AU123379, AW245308, AI768205, BF816059, AW953830, AU154731, BF438408, AI954608, AA608681, AI478604, AI094173, AW953829, BF195855, BF062831, AW166233, N35935, BE858085, AI338928, AU149190, AW959434, AA582845, AI989985, BF887251, AI633899, AI141852, AW269352, AI926632, AW996354, AA640311, AA278230, AI206195, AI270670, AI360878, F20547, AI337068, N67886, N67901, AI378580, AI621188, W95887, N24059, AW167800, AA830972, BF433869, AA213727, BF431102, AI494190, H77549, BF063492, AA071400, H82545, AI752077, T69890, AA689415, AA976754, BF815137, BF935062, AA774596, H78187, AA213435, N58007, AA652125, AI568847, AW080567, AI752076, AA630655, AA301148, R25524, R00427, H77550, T80885, AW630520, AI825340, W95761, AI217218, T70218, C04730, AA301050, R00428, R40274, AV652368, AI918621, R45585, AW974417, C00681, AA369698, T85808, BE792924, AA251346, R14323, R41093, T70308, AA278724, AA369697, AI079843, AW581898, AI557924, BE720138, BF376223, AI923602, AI908753, AW369639, AW369630, BE671925, AW351436, R28905, AI445617, AB002299, AL096678, and AK027048.
HBJKI39	678	865163	1 - 720	15 - 734	AV763790, BG035095, BF311394, BE866107, AV710161, BF213450, BF033854,

					BF027535, BE560230, BE905264, BE612736, BF676342, BF212353, BG165564, AI131355, BE263142, AV763738, AA292974, AI557218, BF968040, BE384654, BE906893, AI090743, BE314436, N27721, AA557194, BE563017, AI804348, AA631848, AI146318, BE730034, AI539429, BE909983, BG236215, AW005799, AV733534, AA233902, AV682591, AI363335, AI082444, AI096906, AI422717, AA743800, AW136326, AI347590, AI087101, BF222827, AI022687, AW274996, BE550312, AA211343, AA211344, AI359155, AI333899, AA771974, AI343807, BF216279, N40054, AI142815, AI924652, AA436038, AA732876, AA810604, W25483, BF382936, C17967, H43647, H44711, T47061, AI547066, AA810608, AA299376, W19321, AI191094, AI219430, AA327206, AA234130, AW820573, AI525325, AA339885, BE267639, AA515856, T78524, AA729144, AA781701, AI247706, BE832365, AI350950, AA344641, AA193664, AI184429, AI583130, C00003, AI334371, N93495, AW204078, AA705561, BF697461, AA626270, AW874644, BG152857, BE833515, AI540527, AI351930, AJ278552, AI002507, AV742655, AW867230, AA435940, AA383605, AA398308, AA983731, BF031257, AA625778, BF246352, BF034079, BF081420, AI696588, AA551930, AA732937, AD000671, AF220053, AL133047, and AK027172.
HAGHY26	679	865168	1 - 2014	15 - 2028	BF673779, AW188040, AI221736, W87563, N93749, AW236556, BE552284, H10565, W87467, H23069, AA699314, ZA3772, AA693810, AI918675, H24347, Z39835, AI184773, AA972788, AW594645, and H10362.
HCLSJ87	680	865172	1 - 625	15 - 639	BE048233, and AK024569.
HJBAQ50	681	865176	1 - 1849	15 - 1863	AL118982, AA394289, AA527127, R53332, BF593175, F11356, AA412141, R21019, T78686, R35190, R24849, T80400, Z43686, AW303583, Z46003, M78951, AA355887, AI621051, R50850, AI933711, AA888981, AI825042, R53937, BF741667, R39312, BF224101, R46134, AI302700, N51360, T17357, AI651758, and AB002297.
HTELJ31	682	865259	1 - 904	15 - 918	BE738225, AL535280, BG026763, AI885366, BE645606, AI302161, BF593751, AA242838, BF342857, AA446910, AA411760, BF244385, AW070321, AI814097, AI921187, AA447031, BF940067, AI493864, AA773130, AA496344, AI969151, AI371862, AI339154, AI253169, AI037935, AW510547, AA496393, AJ122549, AI911375, AW249456, AI336467, AW263815, AW341480, AI055846, AI524628, AW136484, AW168421, AW248489, AA725305, AI333083, AA889590, AI884966, AW003871, AA733005, AW026126, AA534067, AA242738, AA279341, AW131306, BF594234, AW471456, BF196531, AA079369, AW466944, AW955701, AI311396, AA079368, R80506, AW519278, AI040818, AI269710, AA854533, AA196585, H72443, AA779210, T61615, AI374705, R80400, AA931193, AW197539, AA187141, AW893379, BE617112, AW191890, AW072109, T49445, AA406574, BE297346, AA443221, BF993721, AI302163, AJ278548, R01059, BF447381, AI032463, H59814, AI016223, AI968752, AW136446, AI015349, BE907334, H72353, R67486, R66343, R01784,

HPJBE61	683	865275	1 - 1109	15 - 1123	AW028501, AI869858, AA808976, AW572970, R66344, BE939729, AI038868, BF208092, AA338656, AI765860, BE788665, AI360100, R64309, AA583681, W25681, W02509, AA364871, T49446, BE617709, H59813, T82342, BE018166, AI419652, AI913490, R64310, BF246735, BF027486, AW972868, AA502662, AA523713, BE542590, BE408723, AV682906, BE384573, AW247397, BE276659, BE294408, AA837015, AI352514, AI582912, AW020397, AI865907, AI281867, AI811603, AW953965, AI697236, AW959800, AW169684, AI288076, AW130088, BF725868, AA825548, AI590860, AW168503, AW192701, AW073956, AI538850, AI473208, AW169383, AW087813, AA829930, N36182, AW083572, AI056328, AW001850, AI373276, AI823719, AI811644, AI584130, AW264411, AJ242859, AL133637, AF254119, AL137555, S53987, U55017, X67688, E01963, AL133113, AL080163, AC020549, S77771, U80919, X87224, AF314091, AL049324, AK025356, AF116698, AF118070, M85165, AL157431, AL389951, AK024545, AL162083, AF057300, AF057299, AR068466, AX015915, AF000301, AL133014, A15345, AL049300, AL133557, AB047941, X52128, AF161413, AL137276, AL353999, AB048964, AF116639, AK000449, AK026591, AF082526, AF116614, U90884, E12580, AK027221, AK027160, AX046753, S73498, AB033881, AF061573, AF192401, and AF192402. AL530596, AL530595, BF980986, BE748707, BF127552, AA402192, AA291615, AA652443, AA292475, AA830063, AI270545, AI928523, AA866174, AA461524, AA477033, AW298514, AA778558, AI500380, AW955121, BF842518, BE539361, AA293673, AA768790, BF843066, AA402823, AA312083, N95468, BE889325, AI205571, AI198576, W74354, BF084989, AA770325, BE077353, W76549, AI826564, AA764941, AI749672, AI262451, BF817239, AA236730, BF817243, BF817326, AA460596, AW189630, BF696893, W25208, AA220212, AW952409, AV703593, AV703222, AV648263, AV652027, AV708723, AV729263, AV726520, AV651700, AW949795, AW951214, AW955613, AV696106, AW951263, AV689111, AV728157, AV692345, AV708893, AV659536, AV706219, AV707541, AV704637, AV726624, AV709604, AV704955, AV652156, AV658332, AV701707, AV727799, AV705693, AV726784, AV703159, AV708704, AV702427, AI557254, Y11505, and U38894.
HLTCU22	684	865293	1 - 717	15 - 731	AU131397, AV709023, AV649313, AA446793, H73097, AV649514, AI525507, H86748, R14393, F07747, BG236449, N45507, BE857570, AW818138, AA255828, AA255827, BF763365, AK023169, AF169974, AL450226, AL137039, and AF148321.
HE8DZ49	685	865322	1 - 1554	15 - 1568	BG141332, BG115975, AW402616, BF129128, AA487951, AV753264, BF934693, AA383094, BF570933, T80138, AA235941, AA322684, BF917289, AA985393, AA322021, BF741689, R05721, AA031936, BF850739, AA481880, AI640322, BF898592, BF898584, AV723818, AV701066, R13275, AW961883, BF830023, AV725961, AW370906, AW517885, AB018339, AF043290, AF281869, AF281870, and AL078582.

HEGAC86	686	1 - 885	15 - 899	BE467539, AA524412, AI742825, AW26891, AI588931, AI459294, BE895437, AI765671, AA725573, AA429631, BE326464, AI417654, BF448278, BF447896, AI253095, AW073496, AW023725, AI167959, AW103495, AW969533, AI093855, AW268823, AI337559, AI653983, R96969, AA570087, AI263434, BF883014, AV692191, AL045163, AA910889, BF883015, R70192, AI689914, H58753, AA939009, R96914, N51672, AA256181, N73098, AI431926, AA091662, AA894430, AA429632, AW959946, AK026041, and AC010289.
HOUDS89	687	1 - 987	15 - 1001	AI083899, BE275761, AW207384, AW136129, AI927645, BE673962, AI659080, AI569753, AI197768, BF445510, BF438389, AA973894, AI917444, AI363893, BF115804, BE727723, AA865863, AA931590, BF027101, AI032339, AI032343, AI571304, AI371819, BF515519, AW298035, BF513595, BF513048, and AI039911.
HCEVF41	688	1 - 1142	15 - 1156	BE910478, BE261639, BF308306, AW249090, BF246849, H09414, H18721, AI394026, R11726, AA025081, AW248655, BF742266, BF246058, H46443, AA055061, H29433, AL534131, BE019085, BF207033, AA293722, AI094911, AA627408, AA631985, AI971919, BF940419, AW028826, BF436716, BF732259, AW055123, AI094408, BE258822, AW051497, AA327540, AL041348, AW955452, AI338005, AJ245937, Y17801, Y17802, AJ245935, AB033418, AF232061, and AJ245936.
HPWBO25	689	1 - 681	15 - 695	AI557762.
HSKNJ56	690	1 - 580	15 - 594	AU117035, T27082, BF751939, BE843418, W85798, R35500, AW895204, BF878078, R18150, AW863634, W81641, AK021448, AK002198, and AL121926.
HSSKF43	691	1 - 1282	15 - 1296	BE786334, AW474547, BF001686, AI830378, BF196489, BF242919, AW474497, BE540110, AW474534, BE932149, AW044135, T26672, AV721244, R39421, R39406, Z40760, AA248329, BF970155, BE253241, AW518599, BE843437, H88189, AW514672, BF512997, AI902631, AI902632, BF679380, AA229293, AW189301, BG168549, AW089275, AI358701, AI801152, BG113385, AI613436, BF061283, BE887488, AW827106, AW262983, AI363957, BG104820, BE886728, AI439717, BF970449, AL039086, AW129929, AW020693, BG251478, AW023590, AI382670, AI524780, BF061286, BF970768, AI431424, BG166654, AI890507, AI955906, BG251110, AW105601, AI471361, AI799183, BF904265, AV729439, AI700159, BF854113, AW302992, BE910373, AI690748, AW269097, AW152469, AV708004, AA983883, AW089572, AI475134, AI349957, AL120700, AW072719, BF680133, AI911648, AI336495, AI345005, AI632997, AW029197, BF884999, AW268253, BG033723, AW090539, BF527014, AI866798, BE964078, AL119863, BG163618, BG001235, AI933589, AI611348, AI309401, AW149925, AW020419, AI345608, AV757943, AI811785, AW268302, BF726348, BE877295, F27438, AI567612, AW301300, AI433384, AW075207, AI343037, AI648684, AI345735, AI280747, AI627604, AL036980, AV717234, BE138712, AA291456, AV757343, AI917963, AI500659, AI254597,

1360

AI345471, AI826225, AW169653, BF055899, AI313320, BG028025, AW074993,
AW302965, AI349614, AW071380, BE781369, BF752845, AI572717, AI309431, N29277,
AW198075, AI312152, BF909758, AW827103, AI310575, BG058150, AI783504,
BF092710, AI805769, AW075084, BG110517, BG109270, AI468872, AW193134,
BF826445, BE069307, AI349937, BG029667, AI874166, BF338002, BE789764,
AI340533, AI307708, AI961589, AA572758, AI868204, AW935969, AI589267,
BF054877, AI318280, AI312428, AI340627, BE785868, BE965432, AI267162, BF872670,
AI445992, BE965067, AI307520, AI340603, AW020095, BG252799, AW303152,
AA580663, AI254226, AL036802, BG249582, AW806761, AV741327, AI866465,
AW090393, AI627988, BG256090, AI800453, BF885000, AW845239, BG113299,
AW072484, BE047852, BE965621, AI343112, AI668893, AI889147, BG031664,
AI923989, BG025275, BF343568, BG179438, AI670009, AV738991, AW301505,
BE907440, BF883916, AI349598, BF882343, BF968151, AI890806, AI582483,
AV726125, AI349256, AL036664, AI570807, AI345778, AI620639, AW193125,
AI744923, BF726237, BF924882, AI801325, AI280670, AI567351, BF339322,
AW149026, BG164558, AI334884, AI307543, AW827206, AV755973, AI566670,
AV713988, AW071412, AI634467, AI862144, AI336513, AV682124, AI312325,
AI345261, AI288285, AI886123, AI352326, AW301513, AI281867, AB028127,
AB028126, AL110280, AL050092, U68233, I92592, AJ238278, AF119899, I89947,
AK024538, AL389939, AF118064, AK000137, AK027146, AK027164, AF116602,
A08916, AK026534, A07647, AF119860, AB019565, A08910, A08909, AL390154,
I48978, AR038854, AF113694, AB051158, AL359615, A08913, AK000391, AF091084,
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AF132676, AK026164, AF061836, AF116654, AK027200, Y09972, L31396, AF116682,
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AK024588, AK025254, AF116691, AF218031, AK025391, M30514, AL133557,
AL133565, AL137292, X82434, AB052191, AL162008, Y11254, AF017437, AF116644,
AL133080, AL049430, AL137648, AK026629, Z82022, AK026542, AB048975,
AF116646, AX020124, AL133560, AK025967, A90832, AK026353, AF113699, E02349,
AK026746, AF242189, AF090903, AL117457, AL050149, AF262032, AK025484,
AK026452, AK025772, I00734, U35846, AL133606, X63574, AB034701, S69510,
AL049464, AF132205, AL137488, AF116631, A08912, U91329, AF090943, S69510,
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AF061573, AF130066, AK024992, X87582, AK026480, AK026597, AK026959,
AF177336, AK025084, AL137459, AF113222, AL050116, AL133016, I09499, AL050146,
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Clone	No.	ID	Range 1	Range 2	Accession Numbers
					AF003737, AB047941, AF113677, AF118094, AL050024, AJ299431, AL137550, A08908, U42766, AF175983, AF090896, AF130059, AF026816, U72620, AL137463, I26207, E03348, AF126247, AK000418, AF119875, AB050410, AF119871, AB048954, AJ242859, AK027182, AL137538, AF130105, AL359601, AF116649, AL137273, AL080148, AL137527, E12747, AK026593, AF079765, AF230496, I48979, AK000618, AR083266, AX046603, E04233, AL137271, AK026762, AL117460, AF155221, AL110221, AK025708, AF113676, U80742, AL117435, AK026647, AF116639, X72889, AR013797, AF090934, AL137557, AB048964, AK026526, AF051325, AK025906, X70685, AX005848, AF225424, AX005804, AF111851, U00763, AX040974, AK026784, AR079032, AK000323, U68387, AL353940, AL117394, AL133072, AB049848, AF057300, AF057299, AR038969, A18777, A65341, E06743, E05822, AL110196, AK000445, AF087943, AF218014, AF111849, AF017152, AF119857, AK026927, AF113013, Y07905, AL137479, AL162002, AL122110, AK024524, AF100931, AF116676, AK026504, AL049300, I09360, AL049452, AK025339, AL117416, AL357565, and AL357565.
HSKJK72	692	866398	1 - 892	15 - 906	AW296349, and BF997224.
HACBC20	693	866413	1 - 1211	15 - 1225	BE513148, BE797807, BF969302, BG029975, BE974033, AI459123, AW205404, BG249612, BE161969, BE857362, AW026544, BF589390, BE858281, AI764966, AI290966, BE219681, AW131828, BF476182, BG149542, AI338637, AA251984, AI422067, AI458743, AI880429, AW301645, AA490191, AI680968, AA625101, AI160212, AA489660, AI634228, H97818, AW290929, AI342858, AA310446, BF437800, AI351545, BG152888, AW300218, AA421793, AI348502, BE502895, BF111045, AI081043, AI200681, BE326725, AW419232, AI948814, W94428, N33300, AI128774, AW612289, BF897207, BE857515, BF929419, AA310284, AW160878, R37249, AI619597, AA707491, N44832, W92639, AW958256, AI183724, AI798320, AI474743, T19385, H09911, AA456128, D20796, AI933847, W04798, BF054984, T62971, BE881545, H09816, T63223, AI470992, AA252090, BF927676, R12320, AA459752, BE925970, AW891960, AV645773, AI928661, AV645897, and A52243.
HSDIS65	694	866560	1 - 1838	15 - 1852	AL048947, AL048946, AI914416, AA921826, BF675122, BF954517, AW963319, AV723474, AA861010, AA897158, AA057762, AA357651, BF875848, AA298255, AW753507, AU157255, BE835296, AL120223, AA258268, BF967179, AU137659, AW846413, BF967245, AW375642, and AK002017.
HHFEL55	695	866610	1 - 2014	15 - 2028	AI300085, AI953023, AI923834, AA534574, AA621869, AI540078, BF338832, AI554777, AA478423, AA662479, AI079230, AI870830, AA805634, AI817685, BF002847, BE281539, BF876402, AI554780, AA828330, AA641940, BF568662, AI560206, BG222392, AI570555, AI804877, AA621800, AI304391, BF515070, AI142933, AI004697, AI857389, AA290739, BF512572, AI081510, BE819351, BE245307, AA402200,

				AI627206, AA907426, AW025429, AI702954, AA642307, AI628772, BG060039, T54569, AI581091, BE348345, AW054741, BE645352, AI818127, AA290740, N94567, AW235867, AW612635, AA761151, AW339841, AW299784, AA972435, AA582355, AW104341, AA328840, AI628426, AA974720, BF981016, AA916334, AA534608, AA806697, BE903641, AA642395, AI201933, AA525211, AW023784, AI767638, AW303967, AI080153, AW004963, AI750054, AI697027, AI688247, AI651346, T94220, AA953557, AI688379, BF870207, AI859904, AI989646, D61634, AA703897, T54530, AA872882, AA975226, AA354325, AA729832, AI539744, AA679808, AA026794, BF724422, BF876394, BE141854, AW082990, AA907220, W21606, AW407851, BE645804, AI918164, AA641890, AA343865, AI953075, AI638668, BF876415, AI918888, AW407511, W30858, BE855711, AA485038, BF992624, BF895975, AA746590, AI871409, AA483833, BE903520, AW934997, BF675346, AI002596, N69770, AA883525, AA090880, BE855562, BE005937, BF221571, AI363278, BF000343, AW172724, AW173209, AW007389, AI524739, AI539471, AA155623, AI150893, AA485039, AW135403, AI288226, AW340065, AA405924, BE550718, AC004221, AB036882, and AA405801.
HSIDL28	696	866611	1 - 542	15 - 556	BF876402, BF870207, BE819351, BF876394, AA478423, D61634, BF876415, BE141854, AA343865, BF568662, BF895975, AI859904, and AC004221.
HELDT78	697	866684	1 - 1859	15 - 1873	I28792.
HCMTA51	698	866733	1 - 731	15 - 745	BF932257, and AB037815.
HSAZG23	699	866813	1 - 454	15 - 468	T96724, AA701886, T96613, AL133245, and AL121653.
HATDH85	700	866832	1 - 712	15 - 726	BG179979, BE872825, BE378971, BF692038, BF794633, BE748450, BF793582, AW960365, AA313983, BF679774, BE894558, BE545903, BG168341, AI671142, AW956203, BF246599, BE789312, AA325169, T51465, AA420454, AA375752, BG178312, BE735826, T98387, AI905845, W17013, T71419, BE746277, BF030023, H83008, T81203, AA090068, N73033, and AK024673.
HTXNU58	701	866980	1 - 1601	15 - 1615	AL518407, BE390065, AW247313, BE794675, BE264777, AI741443, BE253080, AI693707, AI143127, BE266914, AW026265, AI924930, AI393534, AW051881, BF727147, AA229047, BF087096, AI694101, AI199736, AW628929, AI684280, BF087080, W39029, AW963448, AA868527, AI369441, BE503235, AW594196, AI827081, AW375912, AI799947, AA588251, AA402050, AW029039, AA311874, AA133015, AA854390, AI078410, AA846098, BF433291, AI078477, AI568317, AA621434, AI885825, AA401956, F31153, AA889522, AW024441, R73295, AI193624, BF569759, AI262714, F34143, AI823605, AA676985, AA132720, AA586510, AW005922, AW193025, AI766837, AA229112, AI675643, AI536634, R71809, AI079947, Z41190, AA364116, H99126, BF063250, R54969, AA730069, BF768524, BF888478, AA327014, AA767519, AI381855, H27100, AA88028, AW149951, AI277176, AI825306,

HHSF165	702	867000	1 - 933	15 - 947	AW589816, H27291, AI392904, F36577, F04843, AI381381, BF811963, AW749842, BF803616, BE272069, BE280569, AW452547, AW118486, AA993260, and AL022100. AL523125, AL533388, BE731085, AL536490, AL528592, BE742386, BE260488, BF339003, BF204198, AL527097, BE315275, BE396268, AL521084, BE279532, BE789843, AL535451, AL533206, BE294467, BE294064, AL522670, BE313053, BE791521, AW410248, AL535106, BE379550, BE257953, BG250732, BE788649, AL524249, AL536589, AW896073, BG115055, BE906891, BE262939, BE791682, AL521963, BE299829, BE394960, BF686528, BE737462, BE901021, BF839704, BE836221, BF182949, AA447347, BE790670, BE780791, BE906503, BF346674, BE891675, BE813627, BE617062, BF973295, BG001368, BF986410, BE737444, BF973329, BE890212, BE385628, BF347076, BF982052, BF305720, BG035331, BE389700, BE389156, BF970413, BE390180, BF765773, BE388422, BE386485, BE162527, BF569408, BE797693, BF985492, BE298811, BE884989, BG001371, BF688362, BE620511, BF035350, BF347446, BE272650, AW403669, BE378920, AA130797, AW953445, AW956870, BE612804, T35634, BF568099, T35640, R98124, AW607654, T08443, BF959394, BE745610, AA461412, BE843323, AA493816, BE868244, T35803, T35645, T08078, BF763511, BF035737, BE798645, H56252, BF205431, AL120204, W31266, T35607, BG026669, AW390286, AA324356, T35562, BE778020, AL533664, T35560, T35580, AW994047, BF964045, T34460, BE544039, D55812, R87889, AL533350, T35561, AL524248, AL135544, AL523124, Z42226, AA303806, T35564, T34266, BF762110, BE002599, AA325465, BF317044, H46568, AA133042, AW879358, AW879290, BF935171, AW498707, BF741737, BF038808, BE140487, BE893071, AW845184, BE140485, AW747951, BF740744, BF741783, BF741257, BF360609, AW178880, BF808207, BF741252, BE701610, AV657771, BF982929, BE701608, AW402690, AL533663, BE868322, BE387658, AW178862, AA065281, BF830003, BF948397, BF529863, AA319835, AA977776, AL521083, AU126624, BE536556, BF734814, AV657800, AW845175, BF948398, D78915, W90309, BF948223, AA102711, BF307126, AW956387, BF841751, BE171496, AA340091, H39700, H14195, BE930046, BE930049, AV697048, AL521962, AW882314, BF337722, AA369470, AW948539, AW274402, BF839955, AW379477, AA302545, AF176006, AK022783, AF151822, AF189289, AF192559, AF176007, AF192558, and AB040292.
HRADG27	703	867187	1 - 828	15 - 842	AI003935, BF983692, BF365672, AI560657, AI952878, AW204417, AI916698, AW779600, AL036080, AI270725, AW130318, AW071838, BF197272, AA595148, AA496286, AI968048, AA535372, AW469243, AA458983, AW662372, AW103390, BF001976, AW241678, AA992806, AA702669, AA411460, AA680090, AA427557, AA057543, BE217837, AI025790, AA419217, BF895403, AW236215, AI933720,

					Accession numbers
					BF767496, AW102764, AI471307, AW028139, BF767749, AL036079, AA779900, AA005226, AW627819, T85330, BF767501, AI275738, R05480, AI801715, H72246, AI250341, AA609061, BE770024, AI392865, AW206043, AI766731, AF279265, AC005923, AL050170, and AL024507.
HWBCE30	704	867206	1 - 679	15 - 693	BE882545, BE745043, BF880985, BF843976, BF841772, BG006450, BE273277, BE273774, BF881163, AK026959, AC036158, and AC036158.
HBGOF57	705	867330	1 - 956	15 - 970	AL527057, AL523047, AL527093, AL528652, AL527989, AL533103, AL530947, AL523026, AL528651, BE906415, BF795026, BF529536, AL515511, BG028753, BG109320, AL530946, AL527988, BG108337, BE409222, AL524166, AI142548, AI076620, AL524167, BE410603, BE858213, BF526060, BE537964, AW207539, AW593262, BE670549, AI391504, BG253740, BF056059, BF112238, AI148710, BE644982, AI459137, AA522920, BF115279, AI762559, BE327654, AI373860, AA913826, BE645078, BF590067, AI095293, AI803364, AI050874, BE538620, AI890078, AI581290, BF430963, BF195714, AI083994, BF195536, AI052777, AI074517, AI167180, AI074538, AI151312, AI936640, BF112128, AI015839, AI674344, AA937098, AI990059, BF111223, BF940920, BE674527, AI339776, AA917921, AI354825, AI085262, BE887668, BF222052, AA581990, BF196713, AA215693, AI087807, AA810757, D19607, AI089883, AI161211, AW340672, AA831950, W74293, BE676767, BF196679, AI084131, AA287408, AA476727, BE464991, AA744671, AA423998, N31738, AA305157, AI097584, AW301681, AI829997, AI498589, AI359885, AW102710, F22539, AW083322, AI796928, AA282043, C01766, N27093, AI370093, AI370809, AA886734, AA282205, BF002462, AW028614, AA989141, AA404240, BE876093, AA287357, AI356196, AA631293, AA358542, BF941746, AL121501, BF360037, AA876563, BE857062, BF832752, AA370269, AI953829, AW470863, AW072175, BF817268, AA425621, AI610796, AW518575, AA307877, AA362894, AI160244, BG259640, AI624790, AI367991, AW104623, AA370270, BF815419, AW089151, AW404514, AA282321, BF870069, AW137670, AI471239, Z39418, F10607, AI128796, AI435516, BF109728, AA732841, AW474739, AA625635, AA969232, AI040652, and AA976485.
HAPNX79	706	867380	1 - 1554	15 - 1568	AL530013, BF057597, BF689272, BE780679, BE264598, AU159982, AU159148, AI889175, BE782348, BE867162, AW001971, AV660589, AI940395, AI589299, BE398067, AI808453, AA809956, BE397390, BE304519, T15859, AI962984, H20543, BF348076, AI685406, AA235197, BE560657, BG056919, AA862809, BE514151, BE278697, BE900545, BE902464, BE733341, BE744609, AI243558, BF868362, BE273629, BF688464, BF590659, AA995380, AA962405, BE696154, H20635, AW242465, AW815015, BG120718, BE504803, BE256213, AV657583, AW951235, AV709580, AV709935, AV703762, AV727032, AV727613, AW955012, AW952183, AV709587, AV659389, AV659294, AV725745, AV727787, AV725745, AV686060, AV660608,

HAJBZ74	707	867423	1 - 1539	15 - 1553	Accession numbers
HAJBZ74	707	867423	1 - 1539	15 - 1553	AV709314, AV691080, AV652001, AV727003, AV727526, AV701496, AV728924, AV725617, AV699089, AV656478, AV706074, AV709660, AV654035, AV704042, AV729220, AV687035, AV697498, AV655096, AV727238, AV696866, AV728997, AV656256, AV698429, AV692972, AV695545, AV656283, AV704234, AV708025, AV729378, AV684604, AV708980, AV692691, AV728270, AV709256, AV702516, AV693523, AV727807, AV703456, AV726103, AV728642, AV727029, AV727221, AV707510, AV728471, AV708438, AV725134, AV696931, AV728436, AV683994, AV708992, AV728733, AW965874, AV690768, AV686420, AV682997, AV686390, AV686417, AV686083, AV694871, AV704124, AV703501, AV727126, AV649758, AV725956, AV728985, AV707329, AV656903, AV697288, AV655890, AV697196, AV707753, AV655280, AV659322, AV654908, AV704553, AV698545, AV708893, AV708381, AV660728, AV702345, AV651955, AV661704, AV703169, AV698609, AV728518, AV706532, AV727929, AW964231, AW961403, AV704637, AV692345, AV686064, AV726156, AW960720, AW957068, AW954032, AV706229, AV706854, AV709604, AV701067, AV726681, AV728652, AV725920, AV659547, AV652156, AV658332, AV725054, AV685688, AV689800, AV693005, AV687909, AV701707, AV702854, AW961112, AV684762, AV707933, AV701914, AV705159, AV709407, AV708704, AV703495, AV725826, AV705280, AV727272, AV726816, AV727459, AV702832, AV697880, AV701874, AV687946, AW959895, AV728721, AV701537, AV707415, AV726590, AV706407, AV702794, AV687176, AV725033, AV728965, AV729094, AV727343, AV705811, AV708961, AV726787, AW960326, AW958093, AV660258, AV702385, AV658863, AV709786, AV696106, AV703855, AV704592, AV701538, AV702861, AV692600, AW951263, AV689111, AV728157, AV683443, AV646808, AV706219, AV725864, AW959863, AW959823, AW964095, AW950247, AW964800, AW959848, AV659536, AW959536, AV705632, AW954116, AV726624, AV706721, AV706659, AV704955, AW963264, AV684962, AV704269, AV727103, AV727819, AL110260, AK023915, AX047063, A82595, A82593, AR050070, AX047062, A62298, AX047064, U94592, AX009343, AX009341, AX009337, AX009335, AX009345, AX009342, AX009344, AX009340, AX009339, AX009336, AX009338, AX009334, Z30183, AF006072, A62300, AX040581, U45328, AX046743, and AR025466. AI205313, BE738251, AI127426, AI860308, AI831972, AU119812, BE797476, BE676390, AW027255, AA984233, BE139485, BG255959, AA255717, BE793963, AI033544, AW438777, AW298592, AA134896, AI564553, AA626401, AW872789, ALI38267, AW967914, AW298665, AA476381, BE793467, AI858426, N25295, AA279684, AA054506, AU146059, N75231, N59205, AW271849, AI760694, T16353, AA550740, AA279808, AA446420, AW293935, AI655784, AA262678, AW607571, T17104, AA317993, AW607558, AW247039, AW615803, H00572, AA209219, AI364413,

HKATA81	708	867546	1 - 2136	15 - 2150	C21358, AA776126, H00573, BF592108, N74593, AW250388, AI074663, AA476331, AW956035, AA746090, AA092343, AA054369, AW956040, AW884305, BF090154, AA370202, AA135011, AW050665, AA550858, AW851395, AA428079, AK021910, AR064036, AC006582, and AC011604. BE620053, BE620593, BG109710, BG119433, BE383397, BF035847, AA872710, BG111960, BG248347, BE904996, BF036705, BE378983, BE740887, AI300158, AV716604, H98963, BE257692, BF036166, BF310661, AU128210, AW778814, BE294553, BE879729, BE261359, AW592818, BE258999, AW953784, AV710056, BG026514, AA044747, AA044799, AW051637, AI921790, AI469932, AA947927, AA878925, AA934688, AA058505, BE567185, BE251176, AI016169, AI453622, W95793, BF312584, BE271728, AA834560, AA903577, BF310228, AI299177, AW749954, AI309289, AW874395, AW293746, BF245674, AI948425, AW118921, AI277337, AI085685, AA934482, W38688, AI303007, AA421510, BF243996, BE440006, W95680, AW342036, AW601910, AA053139, AI419931, AV712772, AA962740, AW749576, AW954824, AA417091, AA055227, BE552333, AW291750, W31033, BF304421, T87073, AI371426, AV68193B, AI143381, N92290, AV756120, AV713230, AW749583, BF088974, BE794262, BE258966, AV737047, N25835, AA912713, AA037518, AI097662, W80906, AW291904, AA315305, H71267, AI361634, AW374030, W80813, AW196527, AI247237, BF909052, BF336991, AA657605, AA037362, H41713, AA541343, AW300889, AW300782, BF831587, AA878777, W24468, BG114386, T81887, AA054464, AW374000, R05508, R05615, AW374003, AA363979, AA055226, BF216378, AI041162, AA213429, H73396, H75589, AW384982, BE067202, D20873, AI831636, AI038897, AW795930, BE327096, W86895, BF759237, BF792783, T87074, BF513528, AI311824, BG036220, AI074803, AI690185, AF161512, AK024569, and AK024237.
HPMLG49	709	867555	1 - 1858	15 - 1872	AL517380, AL526030, AL526030, AL514658, AL517381, AI654159, BG178822, BG032080, AA905050, AL526087, AA626798, BE878244, BE218373, BF670896, BF669274, AI810478, AW972555, AI770026, AI888497, AL515104, BE018661, BF207186, BF063287, BE302235, AI478541, AI471838, AW960373, AW377554, BF977505, BF691371, AA314457, AI207225, AI681751, BF696277, AW043978, AI783497, AW299783, BG260195, AW269176, AI937849, BE536570, AI274063, BE766991, AV662157, AI418394, AI247276, BF977120, AV738504, AW607490, BF762248, BF977789, AI879137, AA505969, BF105901, R44048, AI207224, AW235231, BF764012, AA505871, BF223084, BF764013, AA397413, AL515103, BE882337, BF724709, BE568397, AI284411, R39687, BF509264, BF724252, F08821, AI138560, BF930541, AW418591, BF511721, BF978956, H02294, H19601, T49354, AV737871, H19720, AA075444, AI698907, AI041138, BE048891, AW014778, H19568, BF224416, D11695,

Clone	No.	Seq.	Range 1	Range 2	Related Sequences
					H47194, AA009866, T49355, AI049761, AI816449, H19515, AI620398, H20058, AW262559, AI285929, AI423579, AW022720, AA507367, N22165, N71532, AI075991, H19485, AW817717, R72180, AI015251, AI953565, AA089888, AW888597, AW888622, AW888626, BF344236, BG165731, AF195623, AC010205, AC005409, AF047431, AF195624, AF225896, AF181478, Y08486, Y08485, X75785, AK025141, and X77371.
HPMJN59	710	867569	1 - 911	15 - 925	AI917735, AL043338, AW303607, AI819365, BE733691, AW958665, AI243857, AW469635, AW469326, AA496257, AA278626, AA278625, BE789604, AA417787, BG163397, AA306656, AA831859, AA769522, AA157110, AA312210, AA579065, AA564476, AI205635, AA740386, W23045, AA491643, AA810400, F29732, AA417708, BG165205, BE677853, AI567332, BF830136, BE888665, BE739252, BE703932, BE831081, BG259221, BE831119, BE703947, BE703933, AF221635, AF221634, AF221636, AK000290, and AF221637.
HKAED76	711	867582	1 - 1247	15 - 1261	BE176391, AW043865, AW008387, AA707041, AA148822, AA682310, AI742170, AA029670, BF810978, BF439099, AI168076, AA150422, AA693926, W00859, N67047, AA044243, H75419, BE467072, BG166474, D62012, BF211202, BE771574, R09346, R09234, H68486, R06965, C00322, BG055641, AA044324, R06914, AK027115, and AC007969.
HSPAD49	712	867588	1 - 1343	15 - 1357	BF573452, BE568159, AW992556, BF435313, H12032, R53300, R64078, AA234006, BF752650, BF910955, R32285, AI243343, BE812411, BE144212, BF085385, AV749701, BE537504, AI971227, BE566136, and AF198489.
HARMV22	713	867612	1 - 586	15 - 600	BG251248, BE870251, BF183244, BF305644, BG115015, BF305304, BG109203, BE386152, BF982251, BF982386, BE899550, BE301893, BE299415, AL522002, BF970528, BF793440, BE901577, BF344719, AW732476, BE779176, BF316646, BF673757, AL521166, BE409982, AL521608, BE732838, BF340859, BG117962, BE281306, BE280374, BE901175, BE735023, AA206511, BE281612, AA204913, BG249255, AL522550, AW250139, BE872442, AA233944, BF237978, H66924, BE410162, BG165427, BE547252, BE278514, AI752100, BE793472, BF125052, BE018945, BE018944, BE298316, BF688682, BE868990, BE707861, AA580387, AJ243650, AJ271671, AJ243649, AF132942, AF151829, and AJ243651.
HSDIY76	714	867686	1 - 1008	15 - 1022	BE545147, AI003306, AA724572, BF934855, AU141321, AI671252, AA563603, AF156857, and AK023880.
HPJEV26	715	867728	1 - 2433	15 - 2447	AW967465, BF791746, AW957363, AW577740, BE885009, BF435463, BE835283, BE909759, BE835339, BF588573, AW602441, BF666903, AI207040, BF977682, AW379050, AI540159, BF571100, AI769050, AW298379, AA780799, AW750518, AW732059, R56412, R62196, AW628422, BE835274, BF208275, AW189344, AI687116, AI202320, AA599735, BE835264, AW577940, AA113450, BE835266, BF115614, AW243682, AI263369, R68073, AA350381, AA884718, AW195121, BE826016,

HPJEV91	716	867729	1 - 851	15 - 865	AA279250, BF369133, T86222, H69827, BF063069, R39471, AA090799, AW369800, R65869, AA329705, BE782401, AW167762, AA854643, BF995101, N77650, AI689829, BE503641, BE927088, AA996345, AI033930, T10408, AA771990, AI760189, AW149527, AA418809, AI905914, BF342692, AA705912, BE814936, BF055337, BG006890, AA873300, BF112177, BF000218, BF380094, AI740596, BF380091, BF907097, AL050164, AF081259, AF081258, AF081261, AF081260, AC003684, and AL022725.
HAMGK18	717	867752	1 - 658	15 - 672	BE387162, BF977263, BE564669, AA648416, BF195892, AW360816, AL522606, BF246187, AA428104, BF242435, AI671172, AW970286, AW292932, AA112735, ZA5570, AW970367, AI767437, AA534599, BE502417, AA426017, W90405, BF514574, AI292331, AI352501, BF185515, AA112712, W90145, T49740, AI797956, T49741, AW013955, AW007052, AI760456, AW360813, and AF147306.
HCHOH94	718	867777	1 - 560	15 - 574	AV734391, AU143505, AU118959, W02272, W30926, BF207606, AV709525, AA256013, AA227194, H87111, AA386066, AI915132, AA312983, AI915142, AA252578, AW504732, BF208948, AU135918, BE840881, R57641, BE164397, AK024050, AK021735, and AK001873.
HPJDA25	719	867778	1 - 804	15 - 818	BE384965, AU137671, AU141037, BF315974, AI815752, AW408615, BE247057, BE245909, AI906637, AA309547, AK002018, AF047690, and AK024401. AU141037, BE384965, AI906637, AF047690, AK024401, and AK002018.
HJACF33	720	867890	1 - 1045	15 - 1059	BE175371, BE875777, AA311147, AW753492, BF241421, AA063503, AA772927, AW962323, AA063426, AW408063, BF329064, BF329057, BF907586, BF907580, AA526193, AW972802, BF756910, AI274692, AL138265, AA169768, AF236698, BE062158, BF915839, AA127354, BF872216, AA127353, AA721577, AI078409, AI907157, AU144500, AI914151, AI951436, AV730310, AV730307, AW406659, F26719, BF245039, AA579249, AV732042, AW976134, AV691147, BE044986, AA533138, AI934307, AW407220, AI720141, AI559114, AA493902, AI339440, AI935827, AW500532, AU155231, AI050007, AW962942, H94871, BF211759, BF815810, BE617662, AI355224, AL134457, AL138218, AI799545, BE395137, BE541778, BF827410, AU120769, AI446474, AI754658, BE906897, BE164011, BG010717, AW074207, AI709365, BF766647, AU158588, AII41675, BE152176, R96190, AI061313, BE092029, BE174036, AL040324, BF815578, BF944517, AV711535, BF589833, H98660, AI619634, BE047734, BG115446, AA483043, U73638, AL117380, AC007738, AL034420, AL133283, AL121902, AL109801, AL158830, AC010609, AL009177, AL121901, AC011473, AL031428, AC002524, AC011495, AL078581, AF130248, AL008726, AL133246, AF070718, AL163208, AC006515, AL158206, AC005833, AC007536, AC068799, Z98050, AC005277, AL024498, AC002544, AC009481, AL121964, AL080275, AL132639, AL031602, AC004655, AL109743, AL008710,

| HHFMP57 | 721 | 867925 | 1 - 2416 | 15 - 2430 | AP001728, U91326, AL161450, AL049712, AL133289, AC004972, AL049766, AC007546, AP002898, AC007428, AL139186, AJ133269, AL121655, AC000063, AC004806, AC004217, AC006111, AC007151, AC004518, AC010618, AC006994, AL160153, AC008011, U91322, AC006487, AC005217, AC011480, AC009134, Z98048, AC017047, Z83846, AL137839, AL022237, AC007055, AP000086, AL132659, AL121653, AC005696, AF243527, AC011200, AC006116, AC004019, AC004971, AC020663, AC006013, AL031577, AC011489, AC006006, AL032821, AC005412, AC004087, AL138836, AC009600, AC006023, AC006367, AF235097, AL355101, AC020934, AC012627, AC023105, AL034372, AL353667, AC009516, AC002455, AL132773, AC007686, AL157372, AC006353, AP000692, AC007666, AL391114, AJ289880, Z95114, AC005746, AC008101, AC011465, AC006317, AC008958, AL008721, AC008873, AL135749, AL353748, Z94801, AL354696, AL118506, D88268, AL096791, AL353194, AL356801, AP001671, AL035460, AC007238, AJ277557, AP000072, AP000113, AC008753, AL135924, AC005881, AC004890, AC005104, U52112, AL079338, AL031255, AL008630, AB000878, AL109921, AF152365, AC009948, AL033528, AP000745, AC005236, AL008715, AC004089, AL117330, AP001725, AL031656, AL049542, AL021398, AC002369, AL121895, AF205588, AP001694, AC006046, AC004867, AC020550, AP000514, AL139350, AC004983, AC008474, AL022313, AC008626, AC004000, AL022316, AC000353, AF225899, AB023048, AC022392, AJ246003, AP000511, AC006071, AC006539, AC004796, AL049760, AL121890, AC008443, AJ009616, AC005041, AL135901, AC004263, Z99916, U72787, AL138894, AC006965, Z94721, Z97054, AC023425, AL445567, AC003007, AF196969, AC020947, AL050321, AP001752, AC005244, AL049646, AC005513, AL050349, AC005098, AC000052, AL445248, AC006198, AC009001, and AL035415. AU118345, AL527014, AL527058, AU118363, BE742611, BE742293, BE271215, BF970244, BE315413, BF340708, BF342502, BE612861, BG117374, BE515247, BE392474, BE561702, BE390695, BE391180, BE389238, AU118485, BE390366, AL040934, BF975756, AW953651, BG178468, BE389499, BE390873, BE395783, BE693958, BE559667, BE262612, BE269669, BE885417, BE512886, N78326, BE884486, AI354583, BF995149, AA102590, BE276977, BF314335, BE001605, BE963066, BE927049, BE552037, BE693959, BF755714, W72821, AA482202, BE390685, AI811104, AI923908, BE747439, AI955210, AI241672, AU144932, AW005356, AU144433, W72822, AA610244, N57854, AA776240, BF951835, AI869691, BE328437, BF035080, BG230654, BE465633, AI097401, AA136144, AA159091, BF772398, H28893, AU144948, AU145034, AW572297, AW029577, AA599002, AI913174, AW589507, BF038577, AA432194, AI912350, H90336, AW026450, AA676743, AI573143, N64095, BE514326, AW173719, AI439590, AI246619, AI126189, R72806, AA136030, BF949282, |

					W15338, AA632265, H27347, N62095, AW338014, BE350226, AW732278, AA082176, AW262961, H03195, AA046611, AA046519, N57753, AA359539, AW080405, AW342043, BF884225, BG056569, H45880, BF128922, AA977345, AA583776, AW170642, AA648676, N59720, AA678502, H24394, AA431174, AA809373, H62505, F33112, AW149167, BG015045, AI032839, N88118, AI245126, W04418, H03994, AA848077, AA910294, AW016492, AW965640, BE046154, R16997, AA350391, H28894, AI916065, R44633, AW956574, BF800906, AW062887, AA355730, AI203820, AA357099, AA344508, AW166715, AA286791, AI559841, AI873982, BF870405, AI423324, BF056205, AA854147, AI857537, AW581203, AW874219, AA598543, BE393762, BF870399, AI590119, AA724015, AI243914, N76000, H09529, AW021036, AW581204, BF337471, R44522, BF337296, AW271164, AK024469, AK001190, AL117455, AK001032, AK024387, AX026954, AK026767, AC004466, AF207749, AF239243, AF207748, and AF006602.
HELGD39	722	867938	1 - 1537	15 - 1551	AL530772, AL530771, BE792595, BE877347, BG030931, W56141, AV715011, N98792, N66589, AW079529, BF342140, D80121, D81911, AW243564, N98659, AF281037, AV723956, AV723552, AA917457, BE568485, AI805853, AI698508, N40175, AA382587, D80114, AI364248, U54720, F13480, T75157, AV750126, BG031735, BF327171, R58444, BG031897, and BG009932.
HMACX92	723	867995	1 - 1382	15 - 1396	BF056112, AI741818, AI953998, BE273896, BE222929, AA573827, BG169688, AI742027, BE789282, BF064129, AI344703, AI687918, AI738917, AW613258, AI241423, BE963955, BE619177, BF064050, AW058506, AI307806, BF183045, BF512051, AV727483, AV726722, C16636, AW293247, BF588555, AI913588, BE619737, AI524349, AA320459, AV697863, AI971693, BF183639, AA581056, and BG151432.
HMKCV39	724	868004	1 - 526	15 - 540	BE871616, BF345349, BF038771, BE782687, AA447459, AW663327, R80068, AA251458, AW967618, AI693283, BG149181, BF921924, AI739035, AW438908, AW452847, AI401755, AW384844, and AI435334.
HNTOE45	725	868031	1 - 606	15 - 620	AW979048, AV646953, AV647046, BF001543, AA829001, AA837772, BE078416, AW979049, BE004426, AA779444, BE003973, AI039278, BE909311, BF691763, BE276845, AC018646, AC008154, and AB041549.
HCUFV69	726	868130	1 - 345	15 - 359	H95185, AW190988, AW406123, AA448360, BF849922, BF727066, N39858, W77951, AA251049, AA427650, AI160246, AI934824, BF726563, AA889989, AA682768, AI191820, AW675024, AI310399, AW405782, AI023098, AA448217, AW296041, BF726305, BE047922, H63613, AW966978, BE278148, AA609970, R71336, AI198529, AI936151, W72753, AA626729, AI563995, AA394208, BE392063, AI472143, AV692514, AV692507, AW327412, BE394872, BE256182, BE278754, BE790812, BE255594, BE902202, BE732267, AL535281, BE900112, BE783401, BE732506, BE902343,

HMVCZ54	727	868140	1 - 1393	15 - 1407	BF795894, BE731869, BG027322, AI200278, AA150562, AW406119, AI150142, AI863174, T32301, AI223083, AA845380, AW025545, AI769092, AI700344, T20007, AW575589, AA397909, AF115345, and AR077164. AU118736, AW293360, AI434524, AI499675, BE888848, BF245032, BE871775, BE566947, N93884, N94583, AV749453, BE880103, W40376, AA045308, AA045414, T87913, BF372382, R02006, T87924, AW292609, T16957, R19146, R36561, H14428, H08949, AW962507, Z44239, AA329930, AW505256, AF125392, AC009303, AK021692, and AL080184.
HMSHI94	728	868172	1 - 742	15 - 756	BE394322, AA521310, BE729533, AV705577, W22173, AI687970, AW577768, AF093097, and AL139286.
HAPTE80	729	868238	1 - 1214	15 - 1228	AL537045, AL536834, BE879928, AU135328, BG033356, AW960438, AU135327, AA305278, AA131283, AL521228, AL526185, BE897307, AA223833, BE892304, BE092522, BF096165, BF096105, BF096153, BF347944, AA449125, AW500067, BF096068, T27291, BF382665, AA305730, R51476, AA380267, AV715181, BF096075, AK024325, and AL117573.
HSLJC72	730	868253	1 - 702	15 - 716	AA295856.
HWBCR21	731	868312	1 - 671	15 - 685	BE819467, AA723586, AA788738, AW296213, AW378236, AI823511, AW594593, AA341536, and BE819553.
HKAAU27	732	868368	1 - 1362	15 - 1376	BG164604, BG180396, AW959647, BF982584, BG032732, AU149097, BF975110, BF939657, AU148983, N52946, AI685016, AA451853, AI400616, BF572553, AI422792, BF149130, AA452053, F37309, AI187376, AI911398, AI122711, BE074240, BE164841, BE164845, AA918552, AI924579, AW602698, AW881997, BG028864, BF902665, AI470317, AA121637, AA299325, AA912424, AI888910, BE767422, BE164990, AW006694, T54223, BG112795, AU156585, C02302, BE880260, F27397, AA766056, AA436766, BE074233, AI631312, AW367900, AW367911, AW971740, AU131883, AW968355, AW972093, AW968356, AW968729, AW972091, AW972092, AW972090, AW969229, BF768873, AI431337, AI432644, AI623302, AI431351, AI431248, BF448552, AI432649, AI432651, BF589777, AI791349, AI431347, AI432653, AI431230, AI431328, AI432654, AI431354, AI432655, AI431310, AI431312, AI431330, AW081103, AI432647, AI432677, AI432661, AI432675, AI492519, BE672792, AI431243, AI432665, BE672742, BE672759, BE672719, AI432662, BE672767, AI431353, AI432672, AI431345, AI432674, AI431357, AW128846, AI432658, AW128900, AI431241, BE672745, AI431346, AI431255, AI431254, AI432676, AI432673, BE672748, BE672774, AI431340, BE672732, BE672738, AI432650, AI432664, BE672743, AI431307, AI431316, BE672749, BE672744, AW128897, AI431238, AI492510, AI492520, AI432643, AI432657, AI432666, AI431308, AI431247, AI431751, AI492509, AW129223, BE672644, AI431231, AI431257, BE672626, BE672625, AI431314, AK024273, AK022674, AF071317, AX030435,

					Y17793, AX030436, AR071207, and AF064854.
HOSCJ09	733	868369	1 - 672	15 - 686	H24422, BF033026, BE177684, BF129845, AA113426, H08076, H08074, F11232, T10353, F07606, AI858374, R24547, AI871770, BE674285, BE217736, AI216499, AW468398, and F27252.
HWBAE15	734	868370	1 - 1326	15 - 1340	BF129845, AI871770, BE674285, BF033026, BG163231, BE217736, BE177684, F11232, F07606, H08074, H08076, T10353, H24422, AV728696, AA113426, R24547, BE298765, BF809160, BF699082, T05617, F17537, BE153364, BE153393, BG251842, AC007191, AP000348, AL022312, U62317, AL137800, AL133245, AC073898, AP001609, Z97056, AP001610, AC007956, AC006349, AC025588, AC005696, AC004967, AL133551, AC016612, AC008521, AC006057, AL109952, AC069539, AL122001, AL353715, AC007546, AC005902, AL163285, AC005037, AC012519, AC005740, AL353777, AC005225, AF215937, AC007899, AC003665, AC006538, AF217796, AL133512, AC006032, AC020913, AC007731, AL355094, AC010203, AC005086, AB004907, AC008753, AJ009611, U91321, AF047825, AC005793, AC008543, AC005907, AL121712, AL121890, AL008719, AC005944, AP001725, AC068948, AC008536, U93305, AL353802, and AC006441.
HWAFN46	735	868440	1 - 588	15 - 602	AW501989, BF111126, BE141774, BE141517, BE544223, AK023817, AP002384, AP002384, AP001563, and AP001563.
HWAET91	736	868475	1 - 629	15 - 643	AA825353, T66878, AA897376, AA649011, AI393325, BE842821, AA682564, AA721355, AA721146, and AC002553.
HDPMO69	737	868484	1 - 1102	15 - 1116	AU138808, AV728468, AW969015, BE048846, AW510836, AW629173, AI652533, H12665, AW269190, AA147148, BF431236, AI535668, BF218844, W95897, AA304566, R32911, BF209836, BF212248, AA729308, AV749742, AA147132, BF211489, BE085611, W95896, AU135009, BE501041, AA504164, AA059473, BE961019, M85685, AK002135, AC007321, and AK001834.
HELHM41	738	868568	1 - 2417	15 - 2431	AL515170, BE900508, BF035260, BE782214, BE562114, BE891223, BE783151, BF979632, BF035270, BE546559, BF341478, AI916571, AA394306, AW958583, BF901404, W68578, BE908501, AW996502, AA112082, AA740704, AA398509, AA485137, AA503393, AI972521, AA171926, AI804548, AW473940, AI248638, AI554193, AA446833, AI024593, AA923417, AA436028, AA600001, AA524435, AA679078, AI245461, AI074076, BE175878, AA526133, AI654900, T78478, BE858346, AW968708, BF061908, AW972266, Z45100, T79172, T95309, AA630683, H79782, H73984, T36049, H58709, AI735742, Z40839, H72088, AW079174, AA043890, H73940, AL037293, BF994044, Z42965, BE547610, AA172115, AA355490, AA045424, T36102, AA355493, T90943, R30896, BF980274, AA706600, AI139588, H79816, F02443, AI049695, AA670203, AW972906, T79255, C15943, BG165380, BF903644, R83308, AA446832, AA045337, AW878052, Z43759, R83403, R60799, W68579, BF754181,

HEQCA95	739	868765	1 - 1213	15 - 1227	F03028, R60293, H79875, AK000078, AX048101, and AL390156. AU138666, AI766023, AW300606, BE898039, BG117350, AI800641, AI808094, AA457689, AW449733, AW449735, AA315507, U46320, AW779136, BG168133, AW468714, AV742145, AF150370, AU138203, AW452512, AU136379, BG251270, and AK002121.
HAGEG94	740	868792	1 - 1229	15 - 1243	AL525600, AW752022, BE566973, AW956032, AI419335, BE855710, AW956034, BG170308, BF690943, BE886479, BF245951, BF246873, BF516501, AL530600, AA488237, AL525552, R51690, BE763685, AA779057, AW754219, BE622742, BG054804, AA296478, AA370118, AA296248, AV749791, AW796061, AW796020, M96621, AW972529, H24149, BE622429, and AL137013.
HWAFX90	741	868808	1 - 986	15 - 1000	AL519643, AL519642, BE440008, AL519895, BG170723, BG025562, BG252431, BE784090, AL527780, BF972946, BF182781, BF028243, BF036389, BE253888, AV711565, AL527781, BE876001, AV734719, BF217992, BF701098, BF195663, BE380086, BG165235, BF697509, BE739243, BE883738, BE904995, AV721356, BF440019, BF440052, BG033941, BE894109, BF516510, AA312807, BF691779, BF666742, AI978624, BE728826, BE866570, BF726887, BE543360, BE739508, AI950951, BE961088, BE387517, BG255156, BE874970, BE280989, BF684507, AW055058, AA127810, AI423011, BF248231, AW953806, BF111041, AI983698, AI149371, AW079935, BE778879, BE463645, BE780848, BF972692, BF244338, BE878075, BE732828, AA639784, AI088520, AW055150, AA035465, BF971153, AI984009, AA974414, BF593734, AL519894, AW152458, BG105762, AW162019, BF667921, AA687553, BF681153, AW173349, AA740167, AA831991, AI354756, AI453530, BE675483, BE781977, BE390815, BE877161, AI719084, AI719711, AA305409, AA887421, AV759501, BF666828, BE736231, BF213309, BE563797, AW261898, AI631124, BF036674, BF033829, AW575396, BE779179, BF026407, AA643698, AW152523, AI342341, AI361959, AI336152, AI954927, AA837569, AI887169, AI142474, BE782483, BE964765, BF679234, AI953987, AA743522, W52852, AI359968, AI144474, AI609114, AA922338, BE513040, AA088249, BF243942, AI143580, AW051781, AA121482, AI127719, BE778881, AA120783, BF939832, AA719147, BG054734, AA455701, BF239121, AI493197, AI685961, BF941505, AI337879, AA830816, BE960859, AI087247, N89901, AA507014, BF725812, AI467977, AA832498, AW044054, H96478, AI040901, AA024762, AA326688, AA224326, BE300789, BF687644, W28003, AW151050, N25654, AA309712, AA654503, AV751872, AI291251, AA781298, AA045679, AA772431, AA865206, W80466, AA910216, AA229940, AI188805, N23533, AI680538, N30499, AA976499, BE620168, AA120782, BE276608, BE254564, AA181577, BG254402, AW239079, AA176232, W26915, BE741827, BG254889, AV723953, N34255, AW160399, AW304280, AA132426,

AA648271, AI302349, AA974887, AA723429, BE834190, AW407963, N21267, N79707,
H84952, AI680260, AW337755, N79791, AA505915, H70394, AA846240, AII90500,
N34854, N89904, H74189, AA455649, AA938653, R57473, N33152, W60079, AA876647,
AA223846, W31972, AA857060, AA214719, AA332809, AA836918, BF084806, N42142,
R07414, AA505366, AA570008, AA574162, AII89939, W80575, W76420, AW407906,
AI873685, AI573053, AI538660, AA329750, AV737407, R97376, AA299454, AI245848,
AA230126, AA176320, AA372693, AW517926, BG113179, AW390100, AI362342,
AW407596, AL024498, AF151028, AL358777, I48978, AF200464, AK026045, A65340,
AF110640, AL117435, I89947, I48979, AK000323, AL389935, AJ299431, A03736,
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| HS2IL80 | 746 | 869056 | 1 - 589 | 15 - 603 | AF087943, AF116609, AF232009, X52128, AI080162, AL080126, AR038854, AJ250403, AR068751, AB047878, AB007812, AL117435, Z97214, AF130068, AF115410, I80062, AK026542, AK024594, Y11254, AF065135, A76337, AR072149, A76335, E12580, I92592, AF119857, AR068466, AK024622, A15345, U75932, X97332, AY004290, AF113690, X82434, AL133084, AR066485, AR074162, E04233, AL389957, AL137554, AL080234, AF047716, X78627, AF208026, X53587, AF218031, AK026885, AF119856, U57352, AL122118, Y14634, AL050155, AF010191, AL137479, AF004162, AF091084, AB047966, A08913, AK026494, AF090900, AB052191, E02221, AL049447, A08907, AF000167, AF116691, AF141315, AK000603, U83980, E02349, X59812, A08912, A08911, AX026824, AX026823, A58524, A58523, AF266204, AL110159, AF026816, AF175903, AK026894, Y10823, AF119899, AK026480, A77033, A77035, AL049314, AF115392, AF177336, M85164, AK027146, AK027164, AL117460, S77771, AL137281, AL137529, S82852, AF124728, L31396, AF260566, AK027209, U73682, A27171, A08910, AL133049, L31397, AF032666, AF057300, AF057299, X57961, AR020905, AL121898, A08909, I48978, A08456, AF113677, AF090923, AF081366, U57715, AK026959, S69385, AK027173, E12806, AF153205, AF111849, M69222, AF047443, AJ010277, AL133619, S76508, AF113691, AK026649, L13297, A08908, AK027099, AL117587, AF131821, AK025092, AF311287, AL137547, AF100752, X06146, AK026608, U70981, AK026626, AL080154, I17544, AB026675, AK027144, AK000206, AJ003118, AL442082, AL353952, AF106657, AX011676, D16301, AL133623, T51235, T51349, T73441, R10226, R10734, R56672, R56834, R56835, R59097, H14195, H25534, H25535, H26131, H26817, H39700, H46569, R87889, R96820, H56058, H61569, W68425, W90665, W90309, AA133042, AA159983, AA229196, AA229233, AA229435, AA229480, AA228723, AA229754, AA229962, AA526614, AA613417, AA580297, AA713800, AA736839, AA805472, AA858412, AA872093, AA887190, AA923506, AA953331, AA988865, F18178, AA093584, AA411518, AA447147, AA496495, AA496620, AA628330, AA703237, AA853526, AA868647, AA978132, AI015741, AI051521, AI094450, D25820, T24559, Z38471, AA682774, AI246999, AI282522, AI299507, AI350873, AI364662, AI365012, AI300639, AI553849, AI560300, and AI203695. |
| | | | | | BF688362, BE299829, BE313053, BF985492, BF569408, BE791521, BF973295, BE737444, BF973329, AW953445, AW956870, AL524249, AW896073, BF204198, BE612804, BG251430, AW403669, BE788649, BE617062, BG250732, AW607654, BE836221, AL523125, BE378920, BE620511, T08443, AA461412, BF839704, BE745610, W31266, BE778020, BF763511, AL533350, AL120204, R98124, AW390286, R87889, BF035737, BF959394, AL135544, BE731085, BF935171, H56252, AW994047, AL524248, AA133042, AA130797, AA303806, BF305720, D55812, AL533388, |

HUSZB06	747	869057	1 - 1066	15 - 1080	AL523124, BE140485, AW845184, BF762110, BE002599, BE260488, AA325465, H46568, AW879358, BE742386, AW178880, AA493816, BE257953, AW498707, AW879290, BF986410, BF741737, BF038808, AW178862, BE394960, BF741783, BE813627, BE893071, BF740744, BE279532, BF741257, BF360609, BE798645, BF741252, AV657771, BE701610, BE843323, BE701608, D78915, BF948397, AL533663, BF982929, AA065281, AW747951, BE396268, BE387658, AW845175, BE162527, AL536490, BG001371, BF734814, AA977776, AV657800, AL521083, BF830003, BE536556, BF948398, W90309, AL528592, BG001368, AA102711, BG178245, BE789843, BF948223, AL533206, AW956387, H14195, AA340091, AL527097, BE930046, BE930049, BF964045, AV697048, BF765773, AL521962, AA369470, AL535451, AW274402, BF337722, BE858486, BF742683, BG006067, AW270071, AF189289, AF192559, AK022783, AF176006, AF151822, AF192558, AF176007, and AB040292.
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HUCNM83	748	869060	1 - 781	15 - 795	AA779727, BG057680, AI924139, AA969233, AA494558, AI422731, AJ142954, AW628849, BE468071, AI161089, AI167233, BF223235, AI681576, AI090172, AA832347, W94484, BF223486, AI695943, BE674636, AA476621, BF477815, AW368643, AA937792, AI638530, AW195100, BF342018, AA375767, AI383418, AA455748, AI702870, W47065, BE708533, AA375842, AA249694, AA039630, AI253606, C20777, BE299812, N69991, AI383656, AA449149, BE076467, AL049415,

HUCNW47	749	869091	1 - 462	15 - 476	A61271, D50410, and A61272.
HEMGI42	750	869128	1 - 673	15 - 687	BF530011, BE782627, BF207216, AW068570, BE260758, AA252638, BE293073, BE781053, BG258855, BF528620, BG167020, BE793723, BE548064, BF510254, AW293303, BE904628, BF510253, BE900278, BE901809, AI751982, AW247361, BE261852, AF285631, AF224721, and AF295102.
HUSYNI11	751	869192	1 - 5127	15 - 5141	BE887724, AU151411, BE671707, AA299466, BG260801, H50648, AI473819, AI268973, AW083008, AW511853, AW044568, AI066726, AU154867, AA492456, W58205, BF889232, F17079, BF002089, AA919151, AA600292, BG163914, AA767229, AA694587, C20945, AA663270, T67407, D12014, AI868238, BG107875, BF738382, BE621868, AW958229, BE962034, AU157747, AK023005, AX002999, AK001777, and AX002997. AU135474, AU135750, AI908403, AI675872, AV694182, AI908399, BE878645, BE280585, AW978153, AU132961, BG034303, AV714437, BF528893, AW607520, BG033669, BG248915, AI804463, BG034179, BF448642, AW182870, AA404309, AV728551, BE872880, AW373516, AW504478, BE894168, AA676790, BF674864, N32577, N32803, BF752660, AW005424, W87853, AI038081, BG231688, AA404673, AV681660, BG236306, AA478157, AW978733, BF593633, AW367495, AW469773, AU151555, AA478158, AI334288, AA776795, N21012, AI740920, AA596078, AA514413, BE541833, AI203592, AI863025, AU138785, AI094116, N54977, AI961208, AA037312, AA306403, AI351376, BF440035, N20607, AI275548, BF434376, AA280706, AI089377, AA878564, AV712450, AW205723, AW391127, AA721084, AW205251, AW391220, N30775, BE165784, AI034410, N76309, AW166981, AA441970, AI890470, AA815121, AI823712, AI418160, AII23770, AI570590, AA722447, AV728070, AI524309, AII48454, AI222245, AA494500, AA687433, BF819182, AI625371, AW510724, AI826875, AA832312, AI568800, AII48591, BG163445, AI052074, AI095791, AA262028, N68202, W90305, H98626, AA133659, BE904783, AW170342, AI926551, H15451, AI984549, AW131409, AI220222, AA281109, AI038118, AI499297, AI141630, W87683, AI634194, AA418887, AW089998, AI364477, BG059803, R71346, AI033612, AV728072, BE222263, W05504, AI472099, AA133660, AA281206, AW629361, R13704, AA479846, AA127057, AW139299, AA044039, AI347234, AV714503, AA252565, AI266272, AA932329, N68289, AW450392, AA043986, AA628282, AA687489, BF912029, AA287753, AI523115, AI589746, AA948045, BE896310, AA281605, N40207, AA545796, AA826530, W60297, H04073, AI266054, AA742688, AW874035, AI222661, AV660605, W90615, N70622, AA441971, W68541, AA863241, AI024654, R66965, R43940, W60388, BE164759, N68275, AA974135, AA010095, N80986, AA321165, AI128449, AW408660, N75116, AA255740, AI184331, AA025466, AA418888, AU129441, AA810069, H69110, AA001310, R81340, AA431370,

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HTADJ34	752	1 - 608	15 - 622	BG032936, AL529660, BF309824, AL533175, BF663962, BE906705, AL528013, BE905601, BE314426, BE910075, BG120898, AI133427, BF726607, BE548803, BF976430, BE735736, AL529659, BG111586, AL533335, BE255716, BF971439, AA350360, AI372759, BF314488, BG032361, BG115873, BE394389, BF343597, BE778654, R88070, R18809, AI669449, AW407842, BF871214, BF573284, T85919, BE837574, W23910, BF932320, BF871342, R60434, AA223799, AW578878, AI452722, AW973135, AA536032, BF922099, AA328758, W24575, Z42333, AA535292, BF572704, AW973158, AW581672, W42907, BF237786, W05329, AW853389, BF914316, AA332091, AA333563, AA083263, BF093554, AV685016, AI810976, BF924630, BF848898, AW952572, AL134735, T31859, AW748084, AW175970, AC005041, U40825, U79457, AX017996, AX017855, and AF001797.
HTXPR30	753	1 - 3748	15 - 3762	AL523234, BE277614, BF792792, BE798588, BE743378, BG259716, BE740523, BE742964, BE560252, BF968359, BF309750, BG026957, BG167005, BE792174, BE791176, BE547066, BG106897, BE733679, BE548489, BG034120, BF970500, BG034687, BG117402, BF984560, BE386797, BG118211, BF529579, BG165484, BE900222, BE397335, BG105090, BF688488, BE267056, BF689297, BE561533, BF984177, BE560962, BG250210, AV714529, BF347175, BE312641, BF027475, AV701666, BF027171, BF313470, AW245768, BE398145, AV722641, AW958030, BE513638, BE274303, BG251365, BF203901, BE884204, AL523233, BE396391, BE264673, BE867414, AW362755, BE313905, BE269480, BF204923, AL119378, BE268114, BF732341, BF304528, BE268792, BE544024, BE409799, BE384796, AA045263, BE268028, BE268746, BE543859, BE878886, BE514134, AV707123, BE269548, AA045271, BF125631, AL045496, BG167068, BE270036, BE566923, BE312362, AL045495, BE259992, AA903403, BE266793, BF197223, BE019096,

BG167282, BF214545, AI339454, AW029527, BE205856, AW250913, AA164451,
AA865277, BE300753, AI908108, BE297632, BF589059, AL119503, AI191930,
AA182411, AW316673, BF125480, AI921045, AW778845, AI829022, BE379071,
AA164450, AW299297, BE300927, AW614753, AI610883, BE513463, BF365731,
AI445051, BF035636, BE782290, BF109667, AA130635, AW952030, AA918812,
AI908451, AA126324, AA678957, BE294061, AA332552, AW245410, AA612932,
AA492416, AW627774, BF109098, AI886004, N98338, AI191764, AW662860,
AA130738, AV646219, AA588196, W40181, W45103, W47354, AI904557, AA970030,
W22446, AA721026, AA480644, AA581717, AI301032, N67032, AI582542, AA055331,
AA055928, AA134781, W39747, AA996076, BF085160, W27134, AL119343, AA729341,
BF919623, AL041072, AW450039, AA121694, T09284, AW406890, AA121748,
AW837758, N52493, AI001861, BF088805, T69950, AI282693, AW243796, R15183,
AA926791, AW376932, AA169393, F24695, AA628284, AA381549, BE261592,
AA779147, BE264749, N74736, H22082, AV688220, AW364710, BF767634, AA303910,
AA381375, AW207693, AA767007, R41634, AA379254, H22010, H14748, BE046329,
AV693994, AA354765, AW250152, AA332426, H99911, BF379382, BE935311,
AW191912, AA514580, BE935477, BE935480, BE935354, AI205733, AW793226,
R23631, AA508005, AA379307, BF884575, AA338000, R51283, BE935387, AA333114,
BE503420, AA780703, T98953, AI824525, AI270434, BE843833, BE935543, BE935522,
W47355, BF767637, T69902, AW631090, BE938459, AA768656, BE297864, AA984502,
AA296844, BE935544, BE935506, N51671, BE843828, T99004, AA297762, AA251977,
AA570274, AK025085, AC005343, AL031005, AC006115, L05367, AL034376,
AC006255, AL133445, AL049540, AF289077, AL079342, AC006530, Z49258,
AC003663, AC009024, AC007529, AC006139, Z72001, AL080314, AL365335,
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AC005091, AC004383, AC004231, AE000658, AL050318, AC009229, AC020552,
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AC006117, AL022345, Z83843, AC005048, AL096840, AL157688, AC007425,
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HAHDP69	754	1 - 2441	869268	15 - 2455	AU125824, BE731974, AU130807, AU142207, BF313944, BF038261, BE727451, BG252711, BF219934, BE799896, BF309959, BG026489, BE297454, BG033811, BE254272, BE382641, BG031312, BE261741, BG025009, BE794649, BF981584, BE267372, AU138339, BG117645, BE621374, BG252434, BE271823, BG167058, BG118251, BF316661, AW373886, BE266228, AU126282, BE257359, BE538081, BE734266, BF306299, BF128014, BE295721, BF982936, BF982333, BE278482, AW176998, BF127515, BE264504, AW352293, AV738443, BF998212, AW247257, AV740960, AI343362, BE268485, AW250672, AW732418, AA083016, AA401799, BE255644, BF796849, BE709909, BE263521, BF958026, BE544266, AW245808, BE266850, BG250411, BF571087, BE258721, AA429221, BE537465, BE092146, BE315473, BE273645, BE089857, BE179058, BE622303, AA130791, AA305971, BE089904, AW402350, BG121978, BG116138, BE265004, AW296237, AV734399, AV735149, AA158611, BF876411, BF206198, BE261081, AV750274, W52606, BG025523, BE694915, AW835899, BE790738, AW835904, AW936722, BE280267, AW385544, BF304422, AW936693, AW835898, F01154, AW835901, BF948346, AW385551, AW936807, BF819980, BF948436, BF821277, H09492, D52582, W17160, AA331459, W22325, BF934936, H63452, AW385546, AA309755, AL042085, AI832120, AA378611, BE736916, AW936694, BF876478, AA135074, N64094, R19130, AA115830, AW835893, AA354633, BG177379, AA456218, AW380838, AW835881, AA010498, AW803935, AW853878, BE774072, BE019884, BF885497, AA176843, BE774065, AW936716, BE696918, BE926320, BE926326, BG121709, BE774059, BF923849, BE774037, AL041707, BE696832, AA114056, AW799523, AW603524, BE937638, BE816524, BE728773, BE774040, AI902359, AW406741, BE070056, AW500598, AA114057, AA629928, BE774036, AW385540, AA130706, BF948379, BF948380, BF948277, AA007392, BF948384, AA631260, BE774039, AV714935, AV718134, AA158612, AL522965, BE251068, BE693350, R59118, BF948344, D87686, AJ001443, AK001297, D13642, and AL110251.
HTXBF16	755	1 - 636	869270	15 - 650	AL035406.

HTXLG13	756	869344	1 - 1567	15 - 1581	BE937819, AA215796, BE223072, BF793123, AU153440, BE840509, AW778983, AI817574, AA706902, AI497635, AA701915, AU153529, AW296768, BE840626, AA164945, AI887578, AU151336, AW148945, AW375027, AA732352, AA192653, AA948678, AA405773, BF091232, AW081725, AA292731, AA215633, AA447225, AA292078, AW173636, AW440594, AI199935, AI684146, AA292115, AW173732, AA293169, BF823630, AI362925, AA292159, BE930920, AU150023, BE670561, AU147034, AI023706, AA292059, AA814228, AU151502, BE222802, AI038756, H57926, BE044117, AA405754, AA070704, BF934811, AA070913, AI493651, R47279, AI214205, T83843, AW439718, R74544, AW511428, AI436258, AI282932, AW473874, AA999905, AI040960, AA872724, AI023396, AW009887, R74543, AA398325, BF091229, R74500, H28937, H30687, AA733036, BE243381, R74501, AI219036, AA349389, AA877383, R74530, AV746982, AI027649, AA293884, T17337, H21545, AW340820, AA862889, C00925, BF091286, R74529, BE841272, H21544, AI247646, AI805018, BE840634, N79235, R86065, BF091248, AA831087, W03752, AI351390, BF849769, AI955038, BE937788, AW297184, R86195, AI042487, BF091255, AI254738, AW082471, AW575489, AI691154, AA745128, H06327, AW602370, AW602425, BF929233, BE719041, R90819, AI886235, BE819242, BF766555, F21352, AW883808, BF091289, AK022564, AK023200, AK024603, and AL135818.
HEOMD27	757	869349	1 - 1700	15 - 1714	AL120221, AU143329, BG177354, AW957073, AA929046, BE676233, BG251753, BF771339, AU154751, AU148393, BF593701, AI041117, AA447828, AW027408, AW593254, AU160692, AI827377, BE675177, AI095620, AU160434, AU153966, BF108426, AA812962, AA947740, AW024862, AI094081, BF969329, AW276606, BF771337, AI246685, AI374810, BF911523, AI381973, AI348653, AI339534, AA224314, R64026, BF771340, BF907066, BE963927, AI824989, BF830502, R59084, BF907369, N94582, AA837844, R50098, H20695, AI913744, H60970, BE619603, BF907063, R59085, AI085257, H20694, AI907559, BE773568, AA224209, R76292, H18604, R50099, H00524, AA676578, T89733, AI581321, HI8603, AW014667, R43106, AA343706, BE811440, AA369223, BE773536, H00470, BE140194, AA888554, AI493568, AW806478, AA375338, AA295353, AW001701, BE467327, BE811436, AW751063, T89639, AA678432, BE673744, H05456, AW939219, AW062313, D29431, T89831, R17855, AI352410, AW505495, AI796304, T89913, W30873, BF510598, W85831, AW613969, AW134600, BE140246, T98428, AI311385, AI866382, AI493988, AI863636, AI424247, AI674557, AI609519, AI247954, AI341213, AA749373, AW407652, BE551706, AW274877, AU149169, BE464887, AA749425, BF916345, AI682370, BF980268, BF690328, AW939325, AA953251, F30710, D20992, BE935077, BE164547, AK025933, AX048080, AK024061, and AB014592.
HTXHA69	758	869387	1 - 394	15 - 408	AB040900, and AC023790.

HFTCV95	759	1 - 1900	15 - 1914	BF690125, BF529580, BF027085, BE742068, BE871017, BE409727, AW978455, BF337859, BE732859, BE910165, BE292923, AW958287, BF689895, BE746295, BE278963, AI479722, AW965937, AI523073, AI707816, AA864466, AI391489, BF975253, AA393872, AW005319, AI742716, AI310144, AI378194, AV650800, R77016, AV650218, AW057821, AA150070, AW002940, AW085680, AA393871, W47099, AA730622, R05506, BE958347, W47223, AA426572, AA449214, AI635750, W04693, AI269594, AA149962, AA962664, BF799538, AA372202, BF701263, AI609046, AA449215, AA310756, AA830449, R05612, AA005142, AW801034, BF934853, BE672910, R52299, AA361396, R47992, AI587091, AA463768, BF247445, AA425098, R48107, H42297, BE772021, H19930, AI469567, BF129114, AW197986, AI269611, AI912860, T16035, AA135676, AI074941, AA463715, AK025830, AF151821, AC004236, and AB015724.
HTEHC92	760	1 - 2617	15 - 2631	BF341928, BF341966, BE873145, AW961717, AI910855, AI819835, AA781124, AW305005, BG121749, AI857662, AI024636, BG122356, AI916781, AI970596, AI863009, BE672071, AV722622, AW293479, AI049685, AL121112, AW341408, AI122833, AA969846, AL039333, AI990539, AW817588, AI651123, AW193556, AI498086, BF834700, R26882, H79471, AA219158, R91091, H17608, AL039445, R91092, R31387, R23518, AW803046, BF109077, AI142857, R10037, R32884, AA347569, BF834534, M85476, AW274689, BF475648, AW772243, AW663642, R27113, AW104356, AA725854, AW590613, AW511169, AW002471, BE251884, AA935275, AI636784, BF361654, AA219015, AI066606, AW086470, BE251491, AI016503, BE255463, AW294439, AI204388, BE699305, R44650, AA993995, AW950531, AW949530, AW961373, AW959982, AV706136, AV704490, AV704611, AV729316, AW966684, AW967372, AV728199, AW960406, AV702110, AW958225, AV726742, AV725930, AV727637, AV705607, AW965869, AV706758, AW963641, AW959275, AV727047, AW963866, AW962367, AV703591, AW952176, AW951793, AW963463, AW954413, AW957517, AV653846, AW963234, AW955139, AV726572, AW955904, Z40219, AW963895, AV706991, AV701876, AW960271, AV703187, AW963644, AW957428, AW960611, AV708035, AV702814, AV705803, AV702402, AV653872, AV707705, AV728289, AW955629, AW964203, AV692197, AW952184, AV726742, AV725930, AV727637, AV705607, AW965869, AV706758, AW963641, AW950143, AW950018, AW951740, AW950874, AV726755, AW960606, AV649120, AW951182, AV702146, AV704029, AV728929, AV729285, AW963804, AW954000, AW964040, AW963616, AV694684, AW953809, AV652026, AV702738, AW950520, AV707067, AW949712, AV692939, AV687015, AW953797, AW964036, T17285, AV649566, AW955683, AW953788, AV658162, AV698347, AV709775, AV707451, AV705282, AV707238, AW960468, AW966167, AW962713, AV706910, AW962389, AW962394, AW950217, AV729272, AW957653, AV708847, AW949521, AW961234,

Clone	No.	ID			Accession numbers
					AW950683, AV727618, AV727782, AW958106, AW958109, AV708091, AV707949, AV706992, AV708850, AW952346, AW967188, AV655793, AV648623, AV704740, AV649112, AV701613, AV727101, AV705020, AV701844, AV707686, AV703465, AV659189, AV729411, AV952228, AW965033, AV646022, AW954697, AW963405, AW951998, AV708590, AV707786, AW950608, AW951773, AV650367, AV707917, AV653285, AV707722, AV725027, AV704124, AW950078, AW949946, AL121832, A62298, A62300, AX047063, AR050070, Z30183, AX009343, AX009341, AX009337, AX009335, AX009345, AX009342, AX009344, AX009340, AX009339, AX009336, AX009338, AX009334, AX047062, AX047064, A82595, A82593, U94592, U45328, AR025466, and AX046743.
HTFOL05	761	869816	1 - 2249	15 - 2263	AV727049, BF056023, AW516797, AU144270, AI673781, BF675450, AW958794, AA191718, AW001066, AI452758, AI889138, BE903965, AI439094, AI808481, AL079724, AI928350, BF571394, BE879403, AA253270, AA603507, W16714, BE463648, AI365498, AW026764, BG105355, AA570079, AI139312, AA961501, AA243104, AI084041, BE904011, BE819271, AA190360, AA180335, AA774689, BG109358, AW268592, AI697360, BF982538, R98554, AA179759, F06413, AA835693, AW236033, AI221750, N52047, AW183871, BF085199, BF085214, BF085204, AW866577, AA173396, BE765170, BF085200, H10017, AW004838, N95170, BE929608, AA749153, BF085211, BF085202, Z38897, BE929580, AA311801, AU117440, BF997451, AW393159, AA383798, AA173395, BE929612, T31821, T93325, AW393161, N79516, AW452727, BE939680, D20286, R69357, T94003, AA253142, W21556, AW961655, AA180477, AA179724, R98555, T25730, AV702798, AI888433, BE935911, AA323129, BE929588, AB033061, AF259792, and AK000921.
HTPDV70	762	869874	1 - 777	15 - 791	BF900391.
HLYGH73	763	869917	1 - 1048	15 - 1062	AW380333, AW962090, BF901077, BE149705, BF925182, BF925897, AA309454, BE149733, AA354389, AA310427, BF902114, BF925835, AV761537, BF379083, BF892477, BF925889, BF894249, BF925908, AA280188, AW834825, AW378128, H55711, H55275, AW968901, AA488785, H55713, AI540087, BF515947, H55730, H55366, BF892473, AL355092, AF237772, AL031595, and Z59132.
HCE3E13	764	869962	1 - 675	15 - 689	BE256960, BF689843, BE251008, BF971970, BF954615, AC004211, AB023048, AP000511, AK000511, AC005937, and AK025618.
HRAAH37	765	869969	1 - 591	15 - 605	AW406551.
HTOFB26	766	869981	1 - 937	15 - 951	BG033026, BE002788, BE002871, Z17411, AW751538, BE300404, AW374761, AL525326, AV654704, BE888159, BF333628, BE768267, BE904714, AV727782, AW029444, BF510595, AC018639, AC025594, AJ133769, AF145029, Z82244, AL162615, AC010203, Z92546, AC007269, AF027390, AL356354, AL109823, and AP000353.

HMELR15	767	870005	1 - 2371	15 - 2385	AU125247, AU124729, BE796288, AU132120, BE731268, BF308625, BE779901, BE876716, BE904800, BE867838, BE746159, BF568314, BG251630, BE890824, BE278108, BE621085, BE295541, BE880191, BG250801, BG026638, BF317045, AW499914, BF203603, BE279091, BE778966, AW409898, BG110739, BG249759, BE543483, AI819360, BE262059, BF934326, BE018065, BE019944, BF881187, AI743193, BF880136, BF973429, AI806720, BF800138, AW956011, BF838985, AA626610, AA043392, BF894489, AW804704, BE540252, BE544086, AA219394, AV703354, R72848, AW117312, BF816927, AA310746, BF835461, BF841065, AA099977, AA889684, BE720495, AV722701, BE720392, BE720379, BF931389, BF754176, BE883815, AA088522, R73312, BE933618, BE720483, H42783, AV687183, BE933622, W67985, BE720435, AI424278, AI952783, BF569329, AW401477, BE793891, AW751735, AI818791, W19612, AA182720, AA298507, AA909553, BF850467, AA376046, BF512499, BF569336, BF989403, AA331241, AA352279, AV653999, BE259778, AA337446, AA775865, AA297638, AW892623, AA338011, BE693901, AW409899, BE076659, AA282827, BE076660, AI191639, AA333259, W67997, BE965383, AA532370, BE621685, AI147862, BE076661, AV700970, AI354434, BF085023, BE074087, AU148528, AII61124, AA338006, BE158046, N90025, BF568306, AW975083, AA602476, BF880304, BF874370, AW379605, BE504743, BF109406, BE545793, BF919069, H70178, BG011223, AA806913, AW796724, AA172222, AI367063, BE152541, BE301471, AA031626, AI970697, BF990795, AI049515, AW512202, AA172024, AI826997, AW362620, AA099837, H41426, AI365592, AW366675, BE698674, AW609249, BF842231, AI225244, AK001264, AB033018, AX013139, AF161391, AX013149, and AX013140.
HTDAF92	768	870067	1 - 1147	15 - 1161	AU127191, BF979929, AW955120, AU134757, BF345787, BG025008, AL521321, BE620538, AA312035, AA911739, BE735484, AL519144, AI791644, AI792322, R13983, BE260978, BG253245, BF316463, AI424010, BE312861, AL519143, BE622144, BF316355, BF310446, AW082869, BE382900, N56305, BG033446, AI422406, BF311837, H30676, BF206860, BF316399, BF237760, BE620107, F06133, BF979374, BE387546, R13816, R37777, BE383447, R13678, BE260695, AI732836, BE843761, AK002119, AK001377, and AF175767.
HTLIV78	769	870098	1 - 656	15 - 670	AA846864, AW590023, AII25243, AA446154, AW003474, AI200764, AA992083, AI139618, AA429664, AW137061, AA991813, AA923010, AII50169, AI825677, AI917106, AA429514, and AL035460.
HTLEI29	770	870142	1 - 1337	15 - 1351	AA861068, AW593346, AI026913, AI684805, AA447543, AA431984, AI017139, AI122717, AI476720, AII50286, AA918216, AW592970, AW294021, AI283570, AW181969, AII25548, BE044235, AA994056, AA974680, BE044229, AA628142,

					AI372028, BE044223, AW418643, BE041516, AA953413, AI218365, BF115492, AW873559, BE550422, BE044186, BE503483, AW104933, AA854988, AA992982, AA448525, AA335595, AW779121, AA909114, AA884883, AA926841, AA906221, AA970662, AA935622, AA917036, and AC005622.
HTLGX79	771	870181	1 - 2362	15 - 2376	AL536757, AL536758, AL042983, AU143400, BE727484, BG252872, BG031940, BE785704, BE887872, BE390269, BE390137, BE388021, AL045894, AU158624, BF056616, AA142980, AI819718, BG163752, BF194855, AI769669, AI435917, BF125618, BG058584, AI683499, BF477736, AI766947, AA843640, AI765064, BE550279, BG105530, AW028135, AL046584, AW957620, AL045895, BF125846, AW275362, AA860928, BE550550, AA993233, AI190595, AI738798, AW779832, AW590297, AI572599, AI935527, AI804438, AW058541, AW029529, AI017749, AI372930, BE276936, AI189332, AI962393, AA148696, W73459, AI209218, AA143162, AI307654, AI935339, AI952693, AI476285, BF980380, BE693884, AI311787, AA653976, R54225, AI361263, BF222382, AA043920, AI209211, BF125504, AW779740, AW001050, AA579999, BE695026, AI810200, AA480212, AW002962, H02422, BF222839, AW197211, AI657161, AI655164, W73181, AA708450, AA770248, AI650304, AA351246, AI268468, H13104, AW068342, AI093628, H45952, H26972, AI080281, AI675216, BE810810, AA351735, N36238, AI375630, AW195374, AA351734, AI708489, W31718, R51829, W31923, AI149045, AA351245, R32792, BF765176, AI640161, AW130677, BF951593, AW594427, BF196452, AI339439, BF475620, BG054629, BF991534, AI349086, AW188555, BF325577, AW374965, BE937265, AI382425, R32793, BF431410, BE255133, AA148697, R14459, AA295382, BE774959, AI968321, BE925663, BF932982, BF932991, AW370541, BE937703, BE255539, AL117579, AB020664, AK023823, AK024727, and AF153085.
HHFOV07	772	870237	1 - 963	15 - 977	AU118216, AU123576, BE276824, BE728814, BE728860, BE274926, BE730297, AK001186, and AK000997.
HTLDO59	773	870276	1 - 445	15 - 459	AI337031, AW511309, BE550431, AW665680, AW449681, AA719271, AI969740, AA883656, AA993780, AA385348, BF972424, AI480030, N78358, and AC008750.
HE8TM62	774	870447	1 - 1096	15 - 1110	AL521999, BE622768, BF690484, AI698117, BF001651, BE747970, BG033400, BE740980, AW504725, AI937627, AA836250, BF342438, AW407200, AW001591, AW340356, AA099298, AI493682, BF795323, AI709403, AW136099, AA884692, AW402012, R73180, AA101822, AW512103, BE622469, BF965636, BE301808, AI560433, BE276191, AI952405, AW242883, BE219169, AW613583, AA280546, BF507963, AW242742, BE966769, H89547, AI470888, AW407641, AI807734, AI589214, N93808, AA912887, AW961405, AW958094, H89361, AI279097, AA972232, AA328780, BF223988, AA536048, H50060, AA028131, BE708379, AW581195, AI798820, BF690452, BE965354, AW407607, BF337412, BE276432, AA054186, BF305253,

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HJBCS70	775	870457	1 - 856	15 - 870	BF032775, BG120184, BE277566, AW999145, BG058324, AF311213, and AC004905. BE619269, BF569300, BF568269, BE728171, BE394328, AV709676, BE619884, BE407733, BE904620, BE614514, BE966040, AW957440, AW965805, AI346019, AI924255, BE964249, AI088909, AA448390, AA781353, AA194605, AW195727, AI146972, AA150413, BF195047, AA448387, AI308750, AI498033, AA148813, AA804861, AI073753, AA740190, AA579960, AA773774, AI304463, AI244610, AA150136, AL523177, W84699, AA026446, AA401771, AI245270, AI348049, BG107464, AI160024, AW204494, AI240109, AI018032, BE044348, AI245908, AA782917, AL523176, AI167739, AI198405, AW079517, AA810700, BE614015, AW663670, AI350465, AW182756, AW207349, AA148463, AA908581, W79002, AA305875, BE392816, AA152187, W63647, F34275, AI023582, AA772649, AI698603, AA740373, AI245510, AI004632, AI198724, AI566264, AA194636, AA477201, AA353431, AA291758, AA477036, AA768998, AI459372, AA781769, AA479797, H69491, BE041338, AW074444, BES43534, BF755218, BF092121, and AA026249.
HTFMP59	776	870490	1 - 3153	15 - 3167	BF797817, BE740047, BE249825, BE731413, BE742680, BE899565, BE744369, BF206202, BE260523, BE900759, BE740025, BE898932, BE745851, BE747559, BE562618, BE798420, BE612623, BE262686, BE736035, BE892562, BE798176, BE746699, BF342707, BF036360, BE794270, AI813702, BG254773, AI858010, BE792899, BF304886, BE740206, BE799844, BF058200, BE899504, BE746134, BE744058, BE729297, BE747747, BE899090, BG254621, BF313114, BE868034, BE744203, BF057544, BE514860, BF316767, BE745344, BE729156, BF315389, BE514860, BF316767, BE898561, BE741340, BE783861, BE747300, BE512910, BE740258, BE513511, BE898667, BF982904, BE613142, BE799326, BE798309, BE272303, BE272255, BF973236, BF116215, BF316102, BG031570, BE743586, BE382764, BG106263, BF684134, BE899075, BG179842, BF311770, BF446292, BF312984, BF207378, BF684980, BE618536, BF315301, BE746424, BF125963, BE271319, BE388914, BF343301, BE298819, BE388872, BE388290, BE263737, BE868239, BE293257, BE312341, BE387823, BF684685, BE304529, AI659085, BF446227, BF315133, BF593498, BE740304, AW172668, BE263041, BF127573, BF448040, BE746862, BE746704, BE743061, AI280120, BE746806, BE273053, BF058577, BF206439, BE741839, BE266352, BE741949, BE315306, BE390280, BE514722, AI309849, BF001534, BF982865, AI797756, AW295029, AI283577, AI344108, BF207401, AI283606, AI004750, BE792798, AI659873, BF061105, BF125191, BE255059, AI499709, BE312647, AW473221, BE858623, AI201666, AI365432, AA429716, BF724262, AA738487, AA401258, BF732718, BE391502, AI218825, BE302732, BE207216, BF435084, AI581116, BF341280, AI199756, AI129787, AI916162, AI971823, AI857673, BE222798, BE613355, AA101051, AL048737,

HTEOY86	777	870519	1 - 728	15 - 742	AI338174, BG031330, AI184489, AI673612, AI991138, AW954964, AI660555, AI923191, AI279886, AW575745, AW071702, AA610862, AI863883, BE293430, AI371719, BF807661, AA292291, BE383236, AV720750, BE899537, AI000704, AI818993, AA479790, AA431277, BE390619, AI022721, W22964, BE272304, AW408309, AI253017, AW591178, BE675210, N95623, AA602318, AI056071, BE742724, AI476357, AW140028, AA804432, AA781030, AW408436, AI984696, AW131877, AI961505, BE206993, AI274216, BF835812, BG152655, AW590840, AI971841, AI479581, AA886664, BF058894, BF058417, AI927571, AI984332, AA650057, AI056445, AA889138, C17422, BE882774, AI983968, BE742753, AA133815, AW189944, AW206565, AA581792, AW270868, AI916786, AA403226, BF434647, R87263, AI380790, AA147150, N62158, AA358062, BF315550, AI000845, AW204311, BE670791, AI809830, AI368240, AI347325, BF732294, R87935, W79356, AA399193, AL050369, AF052052, AB035134, AB029495, H45335, R84668, R85565, R87237, R87936, H52150, N79286, W04510, W25015, W31451, W74063, AA045677, AA045676, AA079124, AA079225, AA101050, AA133814, AA187420, AA424373, AA427537, AA534176, AA613535, AA639404, AA902431, AA971215, AA975172, AA995904, AA389725, AA477187, AA883164, AI087917, D19890, AI301199, AI302662, AI347144, AI439497, AI498489, AI624625, AI191497, and AI655119.
HTEKC55	778	870560	1 - 1282	15 - 1296	AI828906, AI979270, AI554187, AA774470, N93466, AI686796, and AF081947. BE253978, BE254398, BE255799, BE781341, BE780436, BE780457, BE255033, AW172618, BE257706, BE251940, BE780314, BE255909, AA887084, BE783528, AA913157, BE253356, AI184620, BE253421, BE257391, BE257100, BE252558, BE256521, BE618088, BE258350, AI024872, BE251745, BE252959, AI581295, AI024850, BE256106, BE778121, AA062589, BE258660, AA938866, AA953444, BE255962, BE251245, BE259105, T19332, AI351056, AA700997, BE251072, BE259435, AA063062, AI016246, AA406443, AA994466, T36111, AI017555, AW025700, BE259217, AA364302, BE255046, AA729497, AW966401, U25928, BE251141, AA410460, AA776786, AV702417, AV695700, AV729376, AW950211, AV703687, AV706417, AV709092, AV686100, AV696754, AW952007, AW956891, AW964251, AW960655, AV728652, AV705299, AV705340, AV702296, AV726787, AW951270, AV729076, AV702998, AW962386, AW960601, AV725153, AV651897, AW962978, AW950443, AV703790, AW960601, AW952403, AW952183, AW959806, AV656903, AV661704, AW952751, AV697196, AW956075, AV645936, AV709587, AW955723, AV705135, AV658084, AW959980, AV650283, AV692600, AV650315, AW963768, AV659389, AV659591, AV697880, AV727613, AV656373, AV726010, AW964440, AV655280, AV660258, AV708109, AW959521, AV647789, AW956474, AV659294, AV727787, AV650691, AV703146, AV686060, AV725745, AV686064, AW951239,

| | | | | AV660608, AV728148, AV659322, AV726156, AV650768, AV654908, AV726590, AV698545, AV656478, AW959988, AV709314, AV653353, AV708381, AV654070, AV660728, AW951437, AV691080, AW951281, AV702385, AV658275, AW949802, AV652001, AV651955, AW955662, AV707979, AV703669, AV709580, AV727003, AV725208, AV685536, AV725582, AV708786, AW957517, AV659547, AW959543, AV727526, AV703169, AV725618, AV651920, AW954439, AV727510, AV725633, AV725031, AV728518, AV702266, AV725577, AV725033, AV706223, AV728924, AV725617, AW954206, AW960207, AW955900, AV707863, AV725991, AV696931, AW964421, AW952410, AV703062, AV727822, AV699089, AW964410, AV701874, AW950888, AV703501, AW962444, AW964409, AW964585, AW953574, AV702772, AV704774, AW952460, AW955710, AW954237, AV701180, AV651519, AV707401, AV701183, AV658751, AV683669, AV709660, AV704585, AV709935, AV654035, AV707652, AV707663, AV707654, AV728721, AV683994, AV706854, AV704042, AV654282, AV709880, AV697288, AV729220, AW954134, AV698290, AV687035, AV704847, AV694836, AV706882, AV697498, AV702954, AV655096, AV686420, AV694812, AV727238, AV682997, AV727126, AV696866, AV707656, AV726681, AV655890, AV701946, AC023790, D87325, AX047063, AR050070, AF217994, and Y08991. |
| HTEPK69 | 779 | 870574 | 1 - 3737 | 15 - 3751 | Z78359, BG120498, AL046787, BE299948, BE300005, BF797592, BE646411, BE276812, AI467849, BF305442, AI921905, AW956677, AI742229, BG119339, BF819588, AW950506, AA740928, BE296434, BE393487, BF819587, AW148851, AI916736, AW419330, AW960994, BE882538, BE348307, AA804534, AW451611, AA767277, AI281433, BE646526, AI564217, AI523942, AW364769, AI082623, AA640539, BG150038, AW299493, BE868562, BF196195, AI620008, BE219516, BF334208, AI123945, AI346533, AW469851, AI377579, AI191913, AI610109, AI078678, AA854786, AW085483, BE709716, AW594393, AW978688, AI769651, AI928062, AA923067, AA812157, AI261346, BF875725, AA609195, AI581271, AI025849, AI150639, BE464201, AA599239, AA507048, AI760076, AW194073, AI433379, AI743119, AI041747, AW391749, BF951175, AI347336, AW450845, AW002493, AI275418, AI492025, AW779548, AA742999, BF952495, BF875723, BF734130, BF223867, BE561889, BE504028, AA004830, AA985634, AW452983, AA113313, AA890051, AA814915, AW466976, AI824318, AA767281, AW503165, C06203, AW503174, AW511964, AA983475, AW169615, AA814762, AA031943, AA076092, AI383336, BF951177, BE810312, AW241600, C75084, BF223117, BE463611, AW952105, BE772610, AW504409, AA631549, AW408517, AI814568, AA079540, AI739068, AW950500, AW505489, BF436266, AI245591, AA317350, AA678884, BG055334, BE397945, BE832079, BF954919, AA953576, BE514108, BF355029, |

Gene	No.	Accession	Range 1	Range 2	Sequences
HTENV57	780	870594	1 - 484	15 - 498	BE772608, AI025449, AI290521, BF593540, R24919, BG166636, BF355018, AI017117, AA380072, AI290529, BF963779, H62992, AW269195, BF432519, H62870, AA083323, BE810313, BE832080, BE561312, AI655457, AW079439, W39450, AA890518, BF954920, BE043919, Z39344, H22877, AA861351, AA364532, H24270, BF109152, Z41904, BF847925, AA079508, BE832075, BG029927, BF950647, BE832085, AA768236, BE560198, H65005, H65006, BE832072, AI538604, T30796, BE350784, BG258116, AI382740, AA004983, AW075096, BE672383, Z43272, BE832076, AW801160, AI049753, AA384663, BF954799, AW502714, AA305561, AW958942, AA345258, AA325114, BE677857, AI750479, AA101388, BE268596, BF951166, AW469949, AA180878, AA054836, Z38201, AA648532, BE267814, W38371, AA031942, R67437, AA180892, AW590120, AA346082, AW407493, AI469164, AA417722, BF817201, BE832081, BF997272, BG012014, AA076212, AI016444, BF771965, AB029031, Y17923, and 186429.
HTEJF45	781	870668	1 - 575	15 - 589	AA927155, and AL034550.
HTEGF16	782	870701	1 - 1479	15 - 1493	AA203365, BF531024, AI813708, AW962262, AW300554, BE857681, AW026370, AI654923, AA252931, AW612414, AW299408, N70033, AI859872, N46021, AA977420, AA629258, R77192, AI659888, AA252888, H11937, AA149537, AI024609, BF941586, BF511106, N69894, AI768599, AI420563, AI472810, AI810949, AA489009, N98886, AW955695, AI698854, Z38327, AA364127, AA488535, AI187721, AA488402, AI803900, AK000484, and AL034380.
HLTGU35	783	870713	1 - 549	15 - 563	AW016785, BF929951, AA479308, BE999936, AI911597, AI633540, AI381011, AL529110, AI057451, BF063133, BE077233, AI283542, AI224172, AI025510, H16901, AW589256, R25758, AU156824, AU155569, AC009318, AK001324, and AK001927.
HTEDK07	784	870714	1 - 1289	15 - 1303	AL529110, AL529111, AI633540, BE999936, BF699695, BE567017, AA479409, AI911597, AW016785, AA479308, AI381011, AI057451, AI283542, AI224172, AI025510, BF929951, AW589256, AU156824, R23887, AU155569, BF063133, R43074, R25758, BF818086, BE077233, H09061, AK001927, AK001324, AC009318, and AP000533.
HADGO63	785	870818	1 - 2228	15 - 2242	BG166730, BG110060, BF943758, BG167478, AW369739, AA779755, AI796818, BF344838, AW418704, BF929566, BE882564, BE464531, BG026115, BF106049, AA253192, N53509, AI858417, AW452986, BF217071, AA699819, BE972399, AA283162, AI925522, BF888071, AA283001, AW874681, N34875, AI435285, BF196546, AA835906, AI310069, AA450155, AW802860, AI188262, AW389878, AI147757, AA281217, AA190638, M85582, AI205841, H59008, AW960558, AA677865, R67473, AA938660, AA253193, AA813927, AA281382, N53540, Z43489, AA768728, AL134248, T16522, AW294131, H02995, AA743257, Z39559, AA304497, AW204264, AA843356,

AI091465, AI056131, AA731028, AI783829, AW136002, AA262404, AA278751,
AI636644, R98898, AI982655, R45774, Z44159, H58959, AI003182, AI920975,
BF927340, N28309, BF094348, F03331, AI352036, AI002363, AA971070, AA742867,
BE079625, D55993, BG006790, N43949, AW264028, N71983, N99530, AA995553,
BF963604, D12444, AA093631, AW379497, AV650423, BF665585, BF812426,
BE965121, AI863321, AW150453, AW505354, AI521040, BF877661, BF810126,
AI922901, AI287489, AW079572, AI583065, AI800155, AI934039, BF920893, AI569328,
BF816042, AI811311, AI559737, AI559586, AI570861, AI670002, BG181066, AI915291,
AW089350, BE964168, AW088903, AL121286, BF812938, AW076093, AI922215,
AI537303, AI254727, BE965621, AI554427, AI582932, AW078729, AI886753, AI933589,
AI491897, AI537261, AW118518, AI452707, AA833760, AI567351, AW151714,
AI569583, AI570807, AW026882, AI923370, BF987104, AI249962, BF812960,
AW087932, AI587606, AI468872, AI648663, BF970652, AW129230, AW050522,
AI433157, AI702073, AI611354, BF812961, BF032768, AI539771, AI828731, AI274013,
AI564259, AI537677, AW983829, AI633125, AI698391, AI815232, AI366900,
AW152182, AI889189, AI824444, AW059713, AI926790, AL513803, AI569309,
AI699011, BE907440, AW074161, AI499285, AI500061, AI609589, AI680162, AI537076,
AW983822, AI269205, BG250115, AW078529, AL110306, AI362522, AI538342,
AI521560, AW167228, AI653979, AI432218, AW168452, AI521103, BF724894,
AI312428, AI929108, AW827276, AI625467, AI611743, AW090013, AI561231,
BG249582, AW088134, BF814453, AW080327, AI818977, AI539153, AI801460,
AI868831, BE965114, AI863441, AW082088, AL036638, AW118398, BF904178,
BF812439, BE965111, AI491775, AL514893, AI554818, AW117746, BE890783,
AI431975, W74529, AI269862, AI866573, AL037582, AL037602, AI866798, AW026567,
BE393551, AI679174, AI828682, AI670009, AI862144, AI251830, BE543089, AI473536,
AI538817, AI434281, BF814412, AC005035, AK000380, I48978, AL359941, I89947,
AL137429, Z82022, AK026408, AK027096, A08916, A08913, AF090901, AK024538,
X82434, I48979, AF183393, A08910, A08909, AL049283, I33392, AK026642, AF130087,
AK025524, AL389982, AK026532, AF067728, AX042059, A77033, A77035, AL117649,
AL050138, AL137463, AL137271, A93350, AX010492, AF078844, AF113019,
AL050393, Y11254, AL110196, S68736, A93016, I89931, AK024588, AL049430,
AR087170, AL162083, A65341, AL080159, AL353957, AF119337, AK026959,
AK026528, AK026045, AK026462, AF106862, AF104032, AL133072, A03736,
AF116610, AK026744, AB047904, U80742, AL049382, AB048919, AF119909,
AL359618, AF177401, AL353940, AL442082, Y11587, M92439, AK026504, AL049938,
U67958, AK000137, AK025084, Y14314, U35846, AK026464, E03348, AB048953,
AR000496, AB052191, U39656, AR070212, AL133014, AX006092, AF113691,

				AF116631, AK000614, AF119875, AB041801, AL117626, AF111851, AL359583, AK025414, AF153205, AL137550, AL117460, AL122098, AF116646, U87620, I30339, I30334, AL050149, AK026927, AL359620, AL133606, AX026824, AX026823, A58524, A58523, AK000647, AK027164, AF026124, AL110221, AL157431, AF113013, AF227198, X72889, AL080124, AL137557, AB048974, X84990, AK025312, AK026865, AK025209, AK026784, AK027204, AL162006, A08912, AF185576, U91329, AF116682, AK026593, AL133560, AK027116, AK026534, AL049347, M86826, AL050277, AK025798, AX040958, AF100931, AX019230, AL050024, AF087943, AF113699, AL137523, AF225424, E02349, AK026741, AK000083, AF130105, AK026630, AK025573, AF017152, AL359601, AF090903, AB052200, AF130082, AF090896, AF130110, X98834, AL122110, AL137283, AF116602, AF119896, AB050510, AF119865, AL133640, AX040974, AK000212, AK025092, AK027213, AL137538, AL050146, AK027200, AL133075, AL117457, AF260566, AL050108, AF287051, X65873, AB016226, AL133067, AF116688, AF090934, AF217966, AK026947, AK025491, AK025632, E07108, AK000690, AX019229, AF175983, AL389939, AL162002, AL080060, AF116676, AK026855, AK000432, AL359596, AB048954, AL117585, AF130099, A07647, AK026452, AR079032, AF125948, AK025484, E15569, S78214, AK000486, AB034701, AK000718, AF271350, AF130104, AK024524, AF119883, AF113690, AF113689, Y16645, AF118094, AL389978, AL049466, I03321, AF130100, AF177336, AK026885, AL050172, AL117583, AF130092, AR059958, AF217982, AF116649, AK025772, AF130077, AK026551, X93495, AF079765, AL122121, AF130059, AR011880, E08263, E08264, AB049892, AF314091, and AK000652.
HTAHY24	786	870826	1 - 1063	15 - 1077	AA133012, W28418, W26126, BE241648, AI221445, AW194853, AA259200, AA132718, AA515221, AW820534, AV756230, AA127801, AF302494, AF076531, and AF076532.
HDPDO84	787	870936	1 - 555	15 - 569	AA187106, BG001758, BF816581, AV703906, AA432068, AA424177, AU126858, BF964679, BE620497, AW850036, BF359293, BE144115, BE144226, BF090148, BF956332, BF888788, BF808796, AF225417, AL137497, AF216644, and AK001338.
HNTAN11	788	870937	1 - 844	15 - 858	BE620497, AA187106, AA432068, AA424177, BG001758, AU126858, BF816581, AV703906, BF956332, BF888788, BF090148, AW850036, BF964679, BF808796, BF935958, BG119873, BF359293, BE144115, BE144226, AA366193, BE000743, AL137497, AF216644, AF225417, AK001338, and AF277625.
HTTBJ31	789	870946	1 - 1471	15 - 1485	AI570568, AW341487, AI827050, AW298668, AI792189, AI015693, AI733599, AI672488, BF805186, BF805137, BF364828, AW193262, BF810817, AI244716, BF810805, BF812146, AA358477, BF810813, AI572251, BF812138, AA912444, AA330586, AI206100, AI864375, BF769701, H16914, AA745659, BF771890, AK026431, AP000353, and Z92546.
HAMGO2	790	870957	1 - 963	15 - 977	AA528169, AA877468, BE537305, AW504343, AU157000, BE169367, AV712979,

4				BE778062, BF673318, BE784554, AA730240, AB036063, AL137348, AK001965, AB036532, AP001328, AB036529, AB036531, AB036530, H41568, AA236156, AA639736, AA827059, AA953361, AA701412, AI311084, AI311085, AI364049, and AI498787.
HODFK55	791	870975	1 - 1074	15 - 1088	AU127592, AU117973, AA114062, BE870261, BE871556, AW958589, AA355980, AA280560, AV759556, AK000970, and AB011169.
HBJMW49	792	871019	1 - 656	15 - 670	BF964805, AA706715, AA224086, AA223940, BE616009, AL519027, BF699413, AV705746, BF967473, AV716392, AW952775, AV742876, BE439764, AV727606, AA040832, BE616635, BE313141, BE615880, BE968540, BF105930, AA310233, AA027882, AL532886, AL536799, AA218607, BF966382, AL525450, AL533104, AA150665, BE616614, BE967383, W01548, BF966427, BF967477, AV732951, AW962227, BG105567, AL532956, BF791336, BG036727, BE777778, BE789706, T35494, BE763398, BF575752, BF968612, AA304821, AL519732, AI864304, AW962238, BF105848, AV749220, BF695741, T32119, BF351799, H61928, AL533208, AV723672, BF697535, BE171827, D45317, D45319, AL533167, Z42332, BE790247, BG110791, D45330, Z42207, BF675666, AA089700, BE856230, AA093377, BE765403, BF248124, AV722501, T35997, BF970588, BF104171, AX013696, AF161522, AL080097, and AJ270952.
HSXDF62	793	871038	1 - 407	15 - 421	
HSVCE22	794	871088	1 - 426	15 - 440	AI076394, BF056245, BF057841, AI352554, AA856875, AW979136, AW074583, BE813017, BE072910, BE072901, BE072902, BE072900, BE072676, BE072907, and . BE072669.
HFKLC74	795	871186	1 - 2651	15 - 2665	BE795961, BE410145, BE792414, AU141954, BE262764, BE746375, BF309501, AU143707, BE746451, BG030810, BE900176, BE740821, BE746427, BG253158, BE898791, BG110646, AL040937, AU126223, BF338161, BG179766, BF345524, BE379093, BE892013, BE391125, AW806654, BE273057, BE901462, BE514600, BG110635, BE882355, BG254482, AL526148, BF732410, BE383442, BG256028, BE266643, BE296203, BE263417, BE260929, BF341263, BG177975, BE742897, BE391378, AI678640, BF338242, AI608862, BE070313, AW364764, AW364751, BE389202, AW749585, BE536984, BF846205, BE871785, AW601811, BF026243, AW601844, BG248934, AW328624, BF868966, BE779713, BE070314, AI990470, AW364773, AU153783, AI660558, AI346323, AL526094, AA314049, AU132206, BF000005, BF590718, BE383040, AW272745, BF874087, AI282823, AW083558, AL529521, AW751947, BE869684, BF809018, T16894, AW674628, AA281338, BF868950, AI765077, AW962815, AI948457, AW601835, AL043788, AI272873, BE903516, AW151790, D19593, BF768551, BE543377, AW473561, BE391864, AI674272, BE301196, BE273581, AW028378, AI672826, AI193564,

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HTLEV30	796	871212	1 - 630	15 - 644	BF570315, Z78349, BF570171, AL529424, BE257057, AW083356, BE379285, BE275116, BE387991, BE391217, BF026445, BE735512, BE250854, BF342184, BE730308, AI633569, C02416, AA983675, BF309514, AW081073, BE311512, BE407247, BF569803, AA677642, BF569378, AA553998, AI277832, AV696289, BE300008, BF969821, BE264652, BF312661, AA004344, and AC011442.
HSRAV54	797	871264	1 - 1619	15 - 1633	BF367785, BF367817, AI758981, BF940118, AA601674, AA469230, AL036896, AI797998, AL041375, AI090377, AI521525, AW086291, AI871973, AW970588, AA610381, AU160445, AA831426, BF828756, AU159614, AW275432, AU151751, AW020150, AA218851, AW272815, AA503307, AW500071, AI926102, AI065031, AV756663, AW963450, AU147761, AA298365, AI336771, AA598443, BE140949, AW177869, BE676856, AA525753, AA570255, AI358928, AW514065, AL035977, AI078409, BF916676, AA410788, AA635433, AA669238, BF933309, AI224583, AW272389, AW089625, AW151247, BE328286, AV712092, AF075353, AW341955, BG223384, AA484298, BE077105, AI332615, AA503298, AL048060, AA595661, AI914748, AL119737, AV695953, AI801505, F23338, BE154909, BF589824, AU145957, AV759766, AW902110, AA577706, BE677029, AW901945, AI801563, AW270771, BE154381, AA599712, AI915081, AA719564, AW575605, BF525663, AW963397,

AW327852, AI879968, AW902135, AW963489, AW265006, AA480486, AW511778,
AI791659, AI280535, H77492, AI174703, BE139139, AI278440, AV764259, AI277373,
AW328446, AA515176, BF589066, AI623423, AI744905, AI204309, BF149121,
AW502873, AA683069, H85388, AA507623, BF834298, AW341978, AI754421,
BE245594, AI061313, AW855527, AI309943, AA846923, T11828, AW148964,
AW243831, AA468923, AV751848, AW008184, BE674809, AI251034, AV683406,
AI469384, BF970818, AW872736, AI250552, AU158351, AI284543, AP001721,
AP000125, AP000057, AP000172, AP000330, AC008569, AL034548, AC011497,
AC006042, AL136218, AL121585, AC007421, AC005933, AL035420, AC004755,
AC027279, L44140, AC008762, AL109963, AL021546, AC005914, AC009245,
AL031670, AC011489, AF111170, Z83838, AL031276, AC019140, Z84469, Z98946,
L35532, AC009314, AC003041, AC009362, AL109935, AL355392, AC005094, Z86090,
AC010605, AC007566, AC002119, AC005288, Z93244, AL133332, AP001710,
AC006139, AL049758, AL049576, AC004797, AC004799, AC009116, AC003956,
AP000514, Z83846, AC005519, AF243527, AC006330, AC010201, AP000150,
AC011490, AL133353, AC002347, AL391986, AC004000, AC011811, AL031053,
AL138815, Z68870, Z93783, AC005940, AP000009, AL445687, AC004662, Z75887,
AC005206, AC004893, AL391833, AC005667, AC005484, AC008784, AL031728,
AL135839, AB014080, AC005071, AF002223, AC004132, AF217796, AL138787,
AL136295, AF067844, D28126, AP001694, AL136146, AC008812, AC005089,
AC007919, AL035658, AC006581, Z81364, AL034402, AC009060, AL354683,
AC007237, AL121845, AC005164, AC006345, AC010150, AC024078, AC004526,
AC005024, AP000558, AC005005, AC005815, Z95116, AC005971, AC004898,
AC005412, AL031662, AL109923, AC011890, AL162458, AC007956, AC010412,
AK026238, AL078476, AP000503, AC008392, AL139014, AC002477, AC005841,
AC004081, AP001727, AC022493, AL136137, AC004659, AB023050, AL109613,
Z93241, AC024947, AL121952, AL121890, AF134726, AC010458, AC011895, Z95115,
AC008379, AL049692, AC010311, AL158828, AL121886, AC009516, AC006329,
AC009470, AL353804, AC010422, AL031121, AC004685, AL050307, Z98941,
AL049709, AL031681, AC008641, AC004985, AL158040, AC009086, AL163201,
M63796, AL022316, AL358777, AL033529, AC007563, AL031432, AF168787,
AC004906, AL023575, AB023049, AC008892, AC015550, Z68273, AC009506, Z98752,
AC007391, AL353701, AL008706, AL133395, AL022238, Z84466, AL049795,
AL133340, AL136304, AL138917, AC004491, AP000111, AP000043, AL121748,
AL158159, Z98200, AL117381, AC007151, Z93020, AC003013, AC002544, AC005247,
AL133448, AC005666, AL445217, AC020898, AC009247, AL022721, AL109804,
AL391114, AL138688, AC011491, AC002036, AF312915, AC083861, AP001743,

				AF196971, AC004796, AC006483, AC005778, AL021154, AL133355, AF217403, AF228703, AJ229041, AP001443, AC007066, AL445465, AC005277, AL353680, AC003108, AC005522, AC011475, AC002558, AD000812, AP001504, AC007750, L78810, AL162615, AL132713, AC002394, AP000511, AP000553, AP001724, AC007685, AC002073, AF111168, AL356115, AC005225, and L25175.
HTLID05	798	871356	1 - 1126	15 - 1140	AL537786, AL538232, AL535184, AA663560, BF530385, BE047914, Z45270, BF964415, AL534468, AW161542, BF93691, AW205626, AI201609, AC007227, AL135927, and AK026325.
HDACG50	799	871387	1 - 1438	15 - 1452	AL525918, AL525962, BE739659, BE748605, BE622977, BE620695, BE620341, BF793709, BE894376, BF978528, BF793846, BE842513, BF475586, BG169214, BF184912, BF382743, BF240531, BF029281, BF694140, BF697730, BF667325, AW362870, BF131011, AW837507, AL528832, AV702826, BF668750, BF210239, AV711984, BF680430, BF029448, BF104925, AI142241, BE569174, AI421210, BF241999, BF700644, BF665275, BF207969, AI376442, AA056667, BF207500, BE302033, BF210877, BF666446, BE958602, BF030632, AI418822, BF184399, BE143645, BG027466, BE925780, BE748190, AW338834, AA044187, BF028894, BF028663, BF132612, BE739197, BF245054, BF240345, BE564200, BF027909, AW837659, AI142239, BF668167, BF247574, AA703083, AA884458, BE018424, AI342066, AI142363, BF184668, BE897680, AA131958, AA845562, BF570885, AW964412, BF381572, AW276070, AI888445, BF357765, AA461134, W95957, BF513692, BE567473, W95790, AA595195, AA041216, AA836273, AI244639, BE866730, AI147357, AA781004, AA625616, AW043674, AA621817, AA131871, AA826717, AA076410, W31798, W95871, AW977859, AI332604, AW069645, AA227871, BF753219, AI249664, AI335859, AI076282, N94607, N94747, AA730109, C06488, AA227870, AA609557, AA172239, AW130775, AI283734, BF753217, BF668814, AI023478, AI251872, AA579974, AL528833, AV710812, AI027406, AA172057, AA854295, BG033589, BF382205, AI735384, N53784, T87081, D57943, AA705336, AA767946, AA676885, AI337673, AI937388, H49890, BE566098, AI419799, Z44333, AA744565, N78910, H97181, N39170, N73145, H10262, AV747344, T87082, AA150996, AW837608, AA040780, AA722664, AI084341, AA056546, AW875784, AA767105, T16029, AA076461, Z44312, AI207438, M85789, AA044076, T36038, H10210, BF241860, AA151085, AW780386, W19601, T80176, BF571058, AA372457, T84441, T88804, AA490823, T87483, AW090219, Z40283, T30672, AA565173, AI351732, H97180, AW367375, BF963616, R21428, D79398, AA774020, R58939, R34809, BF956579, T34511, AW367374, AA938627, R21429, BF834627, AW837651, F04907, AU121987, AU121797, BF374670, W23814, AW367377, AW837427, AI147956, N45246, AA316206, BE842137, BE844247, BE844240, AW367378, BE876840, W04696,

HWAGU6 2	800	871413	1 - 868	15 - 882	BE964940, BE844241, AA283283, BE844243, AI937517, AX014822, AF201947, AF130115, AP001962, AL138706, AF082526, and AK022313.
HOEBN65	801	871416	1 - 803	15 - 817	BE545984, BG167577, R77865, AI525869, BF214247, AU124097, BG178026, AU128462, W28537, AW899217, AV651084, BF377686, BF031657, AV651773, BF995707, BE871943, BE541011, AU127443, BF694284, AA092849, AK022558, AK022818, AF233321, and AC007785.
HOEEY60	802	871485	1 - 876	15 - 890	BF027485, BG033189, AV727227, BG035805, AL535626, BE882559, BF529940, BE615392, BF796714, BF026790, AV701622, BE410981, BE389452, BE391282, BE798652, BE902893, BF967185, BF026043, BE389461, AI568567, BF981315, AI992241, BE545652, BG222458, BE616681, AA142944, AI086596, BE302867, BG181027, N92512, AI080304, BF338630, AW090277, AW051448, W63805, W07740, AA843315, AI826693, AA708776, AW151172, AA788733, AA527053, AI299184, AW952840, AI167692, AI161139, AI039605, AV752458, AI160688, AI141373, AA708520, BE616131, AI200329, AA860813, AW337779, AI192219, AI129519, AA872411, AI031868, AI335895, BE730372, AI083531, AI148099, AA844466, BF725321, AA588191, AI076910, AA293831, AI805893, AA315199, AA401651, W93970, AA722032, AI074899, AA493343, AA769806, AI193867, AA436345, AA455203, AI193844, AI141356, AA079352, AA150647, AW750770, AA115544, AI421247, N58395, R87425, AW008542, AV683122, AW009811, AA228455, AA235095, AA454862, T90357, BF589193, R11503, N80680, BG152311, R53208, BE909256, BE818818, AW352337, BF993910, AW337638, N74117, R53110, F32557, BE838555, BE244898, BE838540, W38964, F24549, AI961636, AA228454, AA341105, AV740206, AA309877, AA079591, F24945, BE812404, R86694, AA715148, AA328964, W30921, H66602, W93969, AA302624, AA249309, AA215973, AA411491, R48412, N77987, AA389673, AA558040, AI695590, H87636, AA398459, AI803601, H87635, BF365878, BE764099, AA115055, R86695, AA181312, R49774, AA336147, R50624, AA889647, AA077962, AA402479, T83037, AA187054, AV741922, BF885291, AV741357, AA192729, AA303783, BF997396, AW352326, AA192762, AI378335, W38670, BE745102, R66236, H95941, AA301965, BE833122, BF757771, AA568295, AI970268, R49820, W21103, BF363034, AW352305, BE876790, AW614275, AW798279, N93442, AW750381, H66603, AA365456, F35088, AA904185, BE277437, AI609056, AI913636, BG151102, BF528327, BG121023, AF151893, and AC006329.
					AA195037, BF111651, AI765129, AA195411, AI654178, AL519380, AI813420, AA195525, BE675058, N45297, AA928392, AI34691, AI659617, BE856962, AI034197, AI761583, AA029540, AW974198, AW006007, AI346170, AW083379, AI309925, AI346139, AI417275, AA397632, AI143023, AA435748, AW167905, AA877733, AA662436, AI274079, AI310731, AW083415, AA573261, BE786302, AI762953,

					AV646794, AI264501, AI589448, AW299773, AA531464, AV742573, AV646558, AV646608, AA531483, BE439818, AI557363, AI572087, R41762, AA381200, AA721384, AI214495, AI280297, BF871080, AA808852, AV709280, BF674821, AA029275, AI525601, R51622, AA722827, AA449889, AL519381, Z41845, W45128, AA336049, T35273, R63549, R63504, AV707619, AI743722, AW947045, AA330880, N54746, Z46219, BE770347, AI480191, W45087, AI269390, R17208, BF995086, AI873001, AA496193, BF081512, BF372138, AI206708, AW949633, AW949654, D80038, AW949634, AV655880, AW965158, D80164, AA305578, AW966054, AW965153, AI536102, A84916, I79511, and AR060385.
HHECK12	803	871540	1 - 1057	15 - 1071	AI816291, AA232734, BF853999, H19158, AI760043, AA393161, AA773610, W26621, AW167198, BF814729, W27591, AW304670, AI627709, BF679777, AA977902, AA101978, W27637, H18406, BF933255, BF933289, AA865841, H22590, AA285182, BF431536, BG142220, AA078982, BF671282, AA778341, AA063017, N36725, N41575, BF574489, AI740515, BF575110, BE771604, BE855600, AI636468, AA778420, BF790740, BF432235, AI269917, AA705659, AI027118, BF574566, AI027084, AW149672, AI422217, BE858179, AI096968, BF694874, AI341974, AI640592, AI589163, AI298585, AI423082, AA862265, AA099574, BG249637, AA079083, AI348474, H18407, AA614423, N57559, N89853, AI018299, AA063036, H20775, BE926537, AI423221, AI422398, AA631996, N30801, AI368736, BE762736, AI864591, H18492, AV753461, AK024920, AK025808, AK025832, AK000159, and AX011620.
HTLEM32	804	871541	1 - 764	15 - 778	AI740515, BE855600, AI269917, AI027118, AW149672, AI422217, BE858179, AI027084, AI096968, AI341974, AI589163, BF432235, AI640592, AI423082, AI298585, AI423221, AA862265, AI348474, AI422398, AA614423, AA063036, AI018299, H20775, N89853, AA099574, BF853999, AI760043, N57559, AA631996, BF574489, N30801, BG142220, AI886999, H18407, BF671282, BF575110, H18492, AA918685, BF432451, BF790740, BF574566, BF694874, BF814729, AA079083, AA285182, AA236544, AI864591, BE762736, AI696054, AI553830, AI857516, AI655204, AI652751, AI968364, AA909303, AA927772, AI026914, BF693535, AI816451, AA933651, BF693585, T60608, AK025808, AK024920, and AI219539.
HPMJT61	805	871619	1 - 580	15 - 594	AA457064, R20871, BE140475, AW955294, AW409700, and BE019514.
HHEOI72	806	871663	1 - 1672	15 - 1686	AL536409, BF984403, BG164266, BE251780, BE778252, AW962226, BE736311, BE545565, AI923828, AW749803, AA308878, AA193632, Z44459, R72275, AL536408, BG122513, R59094, W78789, R35689, BE162322, AL530195, BF205215, BF307187, BF916512, AA744858, R00325, BF512099, H11787, and AI580894.
HAPRN77	807	871674	1 - 540	15 - 554	BG255460, BG176979, BG251830, BF791666, BG252085, BF924990, R23524, AW381867, AW381796, AL048976, BG253704, AW606122, BG035233, AA090251, BE882134, AA249265, AL043034, AU143428, BE780668, BF952440, AB011088,

HLJDL43	808	871689	1 - 1496	15 - 1510	AR083288, AC005920, and AK024068.
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1404

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HHFKL03	811	871735	1 - 831	15 - 845	BF679558, AW073731, AU138514, BE780246, AW501986, AK025482, and AK023638. BG256531, BE092014, AW501950, AW801252, BE092132, AW607035, AW363642, AV707961, AW873541, AI246496, BE171936, AV705517, AI745566, AB020637, and AK026560.
HNTTB69	812	871818	1 - 1174	15 - 1188	BE279345, AA459453, AA101550, AA121619, AA205866, BF312631, BG257509, BF312124, BF316513, AA220914, BE902971, AA223598, AA113943, AA486007, AA223124, AA205631, AV751901, BF306788, AA223374, W21295, AA196719, BG257252, AV738784, AV759714, BG257521, AW247263, BE018678, AA181792, AW250315, AA216703, BE795493, AV751522, AL532258, AA026482, BG259318, AA227341, BE409912, AW960173, AA218599, AA132567, AA219692, W58281, BE871186, AA215359, AL518976, BE263657, BE782475, AA206169, BE265441, BE537319, AW247709, BE265357, AA309127, BF796436, AI541341, AC012156, AL157432, AF212220, and AK026932.
HKAAA37	813	871827	1 - 1136	15 - 1150	BF690054, BF940929, AI133589, BE887401, BE903639, BG110948, AI991016, BF125876, W63675, BE393241, AV716597, AA931985, D56220, AA100699, AV711610, AA743791, AI580860, BF732877, BE730258, AI240907, W61091, AA729784, AI750271, AI751445, AI307444, C06381, BF026122, D56451, BE727175, AA857534, AV744622, W37266, AA884177, AA604196, AI366507, BE793846, BE934317, BE742662, BE934437, BE740614, H63216, AA159266, AA088853, BF357124, AW008969, AI687095, BE934332, H93412, AA765667, BE795342, BF879857, BE934366, AA158009, AA907608, BG170115, AA781694, W25078, BF689981, AW245246, N25841, AA022543, T67440, AA641826, BE790851, BE793469, AA148229, BE903214, AI797289, AI911205, AI570144, H63130, AA075311, AA159685, AI866628, AI394269, BG031485, AA074669, Z45116, F28627, AI077930, AW952124, R81680, AI972298, AI318137, AA837473, AI541453, BE799132, AA326131, BE735825, Z36872, AW009221, BF845363, AA248589, H95566, H93411, AW009897, BE267419, AI139372, R52800, AI524549, AI278793, H53993, N30347, BF026858, BF880011, BF209529, BF836728, AA159684, BE835868, AW016845, AW263105, BF055202, AA720507, AI637710, BE265249,

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HACCB78	814	871878	1 - 581	15 - 595	AL532443, BE736025, BE395253, BE887409, AL532442, BE781501, AW405929, BG253497, AV723533, AI718012, AW804688, AI905045, AA394034, AA192851, BF820479, BF351381, BF056095, AA478664, and AI905041.
HMAKM27	815	871887	1 - 2096	15 - 2110	BF032601, BE884480, BE896847, BG107409, AA534380, BE935961, BF593809, AI275974, AA758011, AI091865, AA770655, AA826573, AA642458, AA284480, AA308157, AA150509, AI338707, H98214, AI085686, AI613457, AW007656, BE677803, AW083271, AA156713, BF890758, BE092569, BF687549, R38877, AV716024, AI079204, AI561066, AW629504, AI638057, Z44870, AA468549, BF445676, AW771735, BF852685, AW173317, AA368918, BE092420, AW969242, AI254739, T80580, AA406249, F07793, R55262, BE832360, R55263, AW900776, AA625472, F05814, Z40638, F04054, AA321781, AW021358, AA714089, BF886411, H91564, AA954780, BF871030, F02061, AA243079, AI640665, BE774931, H90643, N44003, AW135695, BE927559, BF757045, AW999558, AI002239, D19832, BE567146, BF089866, R12721, BE932984, BE832354, BE707285, AL008639, AB040946, AF139898, AF131746, and AK027079.
HTLEO76	816	871905	1 - 501	15 - 515	AI650584, AA297993, AW961753, AU134330, AA297533, BF832650, AK023386, T86497, T82189, T82190, R71600, H13433, H13479, H39877, H54215, H58444, H58445, H90515, H90612, N49878, N67976, W94927, AA148536, AA156626, AA243312, AA262731, AA280401, AA481036, AA481116, AA491260, AA911168, N56306, AA204861, AA599121, AA625826, AA628304, AA846252, AA910465, AA913474, AI052679, AI080658, AI244439, AI306694, AI123958, AI142679, AI627205, AI630851, and AI653857.
HTPBR76	817	871944	1 - 884	15 - 898	AA179229, N47674, BE544665, BE868067, R88653, and AC004685.
HNTNH42	818	871982	1 - 756	15 - 770	BG108231, AW027467, BE549843, AW002474, AA249580, AA054620, AA043925, AA046731, AA047158, BE840469, AI653300, AI917733, BF221599, BF056768, AW969313, AA760924, AF004840, and AF090866.
HFRCB84	819	871985	1 - 723	15 - 737	

HLWDZ48	820	871994	1 - 1020	15 - 1034	AL523658, BE742720, AI887986, AI361806, AL523657, BF032414, AA843431, BG112272, BG114160, BE743216, BG254436, BE541137, BE538694, AW574661, BG180832, BG122703, AI041835, BE782447, AW963413, BF196383, BE789190, BE314040, H93008, BE892229, BF038947, BE539530, BF691494, BF032909, BF035976, N23788, AW606410, AI684352, BE85820, AW673568, AI818104, AI198978, AI888675, AW731715, AI016917, BG253548, AA251497, AA156659, BF694975, BG027384, N45375, AA883250, AA507394, W85704, AI023435, AV736888, AW391866, W22943, N36039, AA196875, AA838424, AI190353, AA854726, BE157090, AI497789, AI130677, AI805721, AI360590, AA513745, BF855589, AA830287, AA150457, H98174, AI051928, AI362758, AI363063, AI084879, W04868, AI079922, AA596005, N31663, BF855612, AI493678, AA826825, BF082353, N21018, AI206361, AI653847, AI200202, AII28368, AI284973, AII28349, AI312697, AI312666, AI248121, N32421, N24913, N41352, AII99993, N56843, N24199, N32064, AA251539, N32703, AII28532, AI969465, AW803954, AI282180, AI925582, N42221, W72864, AII24912, W45383, AI200989, AW298606, AI040779, AA036893, N24183, H74292, AI200603, AI350819, AI498220, AA772681, AV744681, AA631880, AI000430, AI318071, AA514602, W51970, AA315664, N22996, AA878042, AI499035, N31686, AI023392, AII89536, BF746415, AA722758, AA977027, R77003, AA701051, BF693558, AA159754, W86916, R71001, AI200017, AA856551, AA146841, AI205729, W48824, H94999, H74293, AI337597, AA962756, AA764846, AA889344, N70498, AA903482, AI206374, AI969476, BE158168, AW408209, AI349596, AW008691, T49177, AW860686, AA146840, W01403, BE158146, AA172157, BE158128, AA873579, AI383805, AW372351, W78937, AA608849, R98963, AA171950, AV749689, AA983586, AA860599, AW363469, AA911913, H58077, AII84783, W40392, W75959, H91602, AW887805, AA318271, N26462, AA159753, AA731004, AA775821, N70787, AI810815, H61466, R98874, R48547, AW578938, T49176, AA334127, AW972495, BE158148, AI376333, H01262, AA911925, AA852093, AI219025, R48636, AA852105, F13602, AI290159, H04151, AA357562, BE158136, H40131, H58099, AW843835, AA127482, AA372234, AI880131, N28582, AA890429, H99350, H04152, W23232, H58076, AA369618, H01174, AI243065, AW075805, H91603, BF229077, AI244064, AA190735, AA256143, AI701636, AI907592, W24405, BF887668, AA903426, AI280941, N93093, AA127481, AA812772, BF761457, BF062218, AA255970, BF081145, AA757807, AA704665, AI358908, R70950, AA788734, AI247984, and AF151018.
HKAOC61	821	872013	1 - 615	15 - 629	BE408359, BF034352, BE782529, BF663499, BF125809, BE264972, BE909920, AA411585, BF970515, BE910261, BE262322, BF206350, BF680573, BE904868, BE314050, BE889078, BE252952, AW955529, AA485512, AV752768, BF343862, BF183040, BF116109, AW407316, N36051, H42954, AV688973, N79656, BF056595,

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HHEMJ13	822	872036	1 - 668	15 - 682	BF036644, W07704, AL044714, AV648831, AV648819, AW995328, BF326822, BF843917, BE000761, AI638670, AI953415, AW393113, AV712139, BE178092, BF844535, AK024297, AK000714, and AL133153.
HTFOA36	823	872070	1 - 974	15 - 988	BE906731, AV729001, AV729001, AW365097, AA846784, AI131304, W44347, AI097616, AI564003, R35296, AA482948, AI096726, BF846287, AW997319, AW997218, AA608789, AA490195, AA010018, H60973, AA715205, R17247, AI694485, AI738971, AA490375, AW138082, AA010017, AW957556, AA377980, AI001187, AW732393, AI027726, AI024923, AV707882, AW951270, AW961247, AW963232, AV705420, AW964520, AW962648, AV654689, AV702856, AW957970, AW967280, AV702463, AV708590, AV708498, AW959823, AV702749, AW960685, AV709494, AV725063, AV692178, AV646916, AW963847, AV704410, AV646504, AV646609, AW951240, AV705250, AV647692, AV725550, AV707331, AV728404, AW950375, AV687036, AV705234, AV709244, AV725387, AV727189, AV705392, AW955749, AV702389, AV709939, AW954009, AW959149, AV707322, AW963625, AV727080, AV701739, AV725829, AV702574, AV704031, AV706147, AV701646, AW966775, AV709281, AV652405, AV729337, AW962397, AV703844, AV652936, AV728609, AV701961, AV725095, AW963619, AV684521, AW957985, AW950277, AV647369, AV647390, AW961330, AV653766, AV704767, AV647233, AW963949, AV706226, AV702071, AV706683, AV646649, AW955152, AV704170, AW966625, AW958936, AV704144, AV708520, AW952306, AW963598, AW966625, AV647452, AW954336, AV647758, AV704342, AV691489, AW951450, AW954203, AV661498, AV682980, AV726653, AW951875, AW967188, AW950258, AV703833, AV703425, AV705319, AW954427,

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HULEW22	824	1 - 462	15 - 476	AW239167, BF036606, BF797044, AL110323, AA341363, BG255458, AL078611, Z79997, and Z79998.
HWADE54	825	1 - 2506	15 - 2520	AL527273, BE793486, BF305616, BF203973, AI636233, BF337358, AL449611, BE276018, BF305113, BG169928, BE794344, AL449610, AW955027, AA029645, BG231851, BE386543, AI824084, AI769804, AI769744, AI652943, AA677521, AA029713, BF879798, AW001115, BF879790, AI942487, AW572166, AA041310, AA224470, AI285006, AW083829, AW003475, AI804865, AA431600, AW444480, AI628342, BF852888, AW297740, BG261156, AW295260, BF476302, H43216, BE908321, AI015433, BF980911, R73031, AI362978, AL537021, AA732991, R61757, R61640, BE410390, AA255855, BF879691, AI355475, AL039739, BG006065, T53653, BF475396, AA368634, AI809421, AA534152, BG248804, AA041334, BF814051, AI652528, AI990347, BF001355, AA368424, T85425, AI540613, BF879680, AW751161, AI768806, AA352921, BF816471, BG117974, AI284089, N55142, BE894155, C02670, BG011218, AI868394, T53652, AI638636, BE870119, AA322475, BF997351, BE873482, BF822912, AI886291, AA027871, AA031573, AA431464, AI565311, H73300, C21411, BE904591, H85488, BG256126, AA535806, BE275983, R86025, AB045292, AK024725, AB045293, I89935, and I89936.

HEMHH46	826	872093	1 - 928	15 - 942	BE894155, BE046407, AI742373, BG248804, AI138228, AA573889, AI830433, AI925224, AL039740, BE908321, BG117974, AA528201, AW628082, AI924218, AI571064, AI683135, AI475707, AA535806, BG261156, BE870119, AW452074, AA557158, AI673605, R73032, AI628804, N26129, AA031573, AA974394, AI767451, AI767461, AI767460, AW204676, AA926795, N50784, AI961155, R60973, AA719136, AI201190, T16566, AW006949, AA255855, AA027871, AI262067, AI569026, AI926852, AA354175, AI859390, R86025, AI678371, H43185, AA092300, R61758, C00844, AI598006, H85488, AI869857, AA027819, AA031452, and R61640.
HFPIX46	827	872113	1 - 1836	15 - 1850	AL527786, BE386766, BE386802, BE300076, BE299498, BE299975, BF308467, AA778659, BE542454, AI310145, BE730783, BE855609, BE901603, BE900953, AI569659, W03003, BE394640, AI858080, BE278967, AW957066, AI066688, AA629579, BE894153, BE895998, AW089966, N72301, AW090236, BE300338, H30717, AI025185, AI673663, AL134996, D20077, AA984671, AA865573, AA157331, AA157428, BG002843, AA342003, AW188233, H28142, AA782702, AL040088, AA296718, AA342002, AW886359, AA369151, BF125550, AI424611, BE551111, BF795984, AA369150, AW504570, AI828717, BE085589, BF433585, AI263341, AB011143, and AB018413.
HHPDK44	828	872141	1 - 747	15 - 761	BF243436, BF676689, AI800696, AP001696, AP001597, and AP001597.
HE2FK85	829	872190	1 - 1252	15 - 1266	
HPQSL36	830	872224	1 - 687	15 - 701	AI279903, AA953561, AI685755, AI971263, BF437741, BG035163, and AL049822.
HEQBF64	831	872357	1 - 880	15 - 894	BF983770, BG028619, BG178054, BE798880, BE312862, BG036055, BF982694, BF805099, BE257263, BE745866, BG117900, AL526063, AA037128, BF037981, BG024075, BE899052, BG112301, AII47040, BE303058, BG112873, BF968971, AA452082, BE539789, AI799103, AW954404, AW957489, BG023931, BE873567, H59917, BE793517, BE728450, BE933489, AA114064, BE810852, AI300527, BF344098, AL526009, R18087, R66211, BG023781, AA302917, AA740785, BF894564, AA297718, T63572, BF036180, AI749037, BG110999, BG026904, AW262596, H42029, AA298499, AA297928, AA026867, BF351017, BF035903, BE899372, AA114004, AA039801, AA057042, BE719811, AA297503, BE898463, AA019035, AW998750, AA282268, AA045009, BE873865, AW249503, BF830907, BE795630, BF917245, H82753, AA032064, AW407164, BG116527, BG231995, AA522833, BE931598, N46163, BE742141, AA451894, AI150184, BF854344, BE513205, AI754474, AA745848, BF854346, BE301334, AI963804, H84444, AW797132, AA922673, AI422459, BE395723, R29356, AV722562, AA037508, AA836524, AI356068, BF439421, AA629610, N36889, BG056311, AI832951, AW118884, AW797252, AA045097, W70034, AW084887, AW340229, BG110401, AI885257, AW770259, AI369408, BF112113, AW614905, BG054830, AW375991, AA994830, BE208015, BE090335, N69029, BE674986,

HAMGB22	832	872526	1 - 2502	15 - 2516	AI028014, AI798549, AI369135, AI360652, AW847201, AW514771, BF508512, AI982743, AX035212, and AL137440.
HDABD89	833	872527	1 - 1610	15 - 1624	

BF109962, AW051537, AW971461, AI823986, AI904815, AI954085, AI523426, AW967781, BF000392, AA401605, AI311307, AI768857, AI692194, AW188473, AI991353, AI037919, AV707298, AI088691, AW057637, AA912979, AA157004, AI124670, AA401474, AA101470, AA625960, AA827143, AA411016, AA465188, AA633141, BG165674, BF242714, AA465546, AA732096, AA214618, T51500, AL080033, AI244110, AI040061, AA831705, AI308983, BG168645, BG168646, AA769468, BG164284, BG253641, AA721105, BG117025, BG025417, BE621893, BG258222, BG167818, AA906441, BE910738, BG252223, BE612896, BG123011, BF798053, BE621811, BF792445, BF984992, BF984267, BF345060, BE621810, AW440440, BG117030, BG117026, BG031014, AW605861, BE614378, BG168644, AA362688, AA362690, AA362689, T29199, AW858525, BE613101, AW972092, AW972091, AW968355, AW861944, AI431351, AW968729, AW968356, AW972093, AW877209, AW604723, AW971740, AW858526, AW972090, AW969229, AL119324, AW858455, AL044652, AW804686, AII42134, AI432644, AI623302, BF793870, AW392670, BE672759, AI431337, AI432653, AW081103, AI431230, AI431328, AI432654, AI431312, AC003083, AL110179, AF125531, AX030435, AR080280, AX030436, A94048, A94061, AR035224, I66487, A49045, I09252, I09251, AX002278, I09270, I09268, I09269, I07209, I07249, AX042374, AX033488, AX033489, AX033490, AR068508, AR068510, AR067734, AR068509, A63954, AX042377, AR091571, AR089207, AR089206, A49701, AX035430, AR089208, AR089205, A29109, A32111, I66495, AR068550, A23373, AR068551, AX042373, I66494, AR085090, A94046, A94054, I58322, I58323, I66497, I66496, I66486, A27169, A27170, A39929, A83151, AR067731, AR067732, AR038307, AR070554, I09267, AR071324, I66498, AX033474, AX033486, AX033487, AX035427, E01324, I08638, AR038321, Y17793, AR051528, AR051547, AR066494, AR051537, AR051524, AX042376, AX042375, AB026436, AR071207, AJ279014, AJ251859, A42964, AF064854, AR060234, AX046357, AR054110, A81671, AR069079, and AR043113.

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HPMIFU11	834	873145	1 - 1189	15 - 1203	AU138387, and AK024358.
HHEFL55	835	873186	1 - 648	15 - 662	BG248331, BG036711, BG036734, AL526582, AU119915, AU120830, AL522581, BG119507, AL525440, AL521296, AL533011, AL520536, BE314452, BG025675, AL526904, BE958011, AW239479, AA306419, BG036731, AU126683, AU126613, BE871257, BE314408, AW411262, BE545814, AK021925, AK022780, and AK000480.
HHFJG66	836	873355	1 - 2680	15 - 2694	AL521804, AL521803, AL535427, BE397366, BF974996, BE562398, BE744093, BE561712, BE271237, BE397614, BE562082, BE397567, BE275147, AL535426, BE409602, BE561529, BE514409, BE561508, BE734376, BE513947, BE269836, BE397322, AW024974, AW303401, BF025695, BE730298, BE397518, BE747750, BE270550, BE277764, AW954868, BE304392, AW954834, BF892698, BE397865, BE207701, BE271132, BG104371, BF125819, BE397490, BE296686, BE207727, AI274799, AW074233, AI679074, AI499422, AI827575, AI928361, BE391918, AA160606, BE562087, AW732734, BF002414, BE267895, AA315776, BE644853, BE547421, AV696893, AV684921, AI016059, AW249651, BF155203, BF437505, AL527262, AW450819, AW079518, BE268902, AI365272, AI338083, AA729126, AA831884, AI440443, AI283488, AI925468, AI274761, BF237940, AL527263,

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HTPHY39	842	874346	1 - 828	15 - 842	BF744793, BE383194, AW954672, AA307462, H86407, BF330227, AA019170, AW351511, AA036880, AA045560, BE169462, BE002829, BF985408, AW577893, D89677, AL133047, AX017513, and AX017612.
HPCRR53	843	874354	1 - 3319	15 - 3333	AL516624, BF969871, BF031846, AW961070, BF002940, AV760146, AW967335, AI346493, AI760821, AA621577, BE614425, BE866784, AW069380, AW955926, BE348366, BE393612, AI379068, H29083, BE966193, AA464795, N79788, AI803023, AI808143, AI367586, AI420880, AI581118, AA150590, AA907364, AA007602, AW087102, W33049, AI341764, AW273761, AW813968, AI435632, AW157498, AW080897, BF979932, AW439597, AW015612, AI368878, BE243262, W07286, AV758107, AA441898, AA160513, AA111896, BG165835, AW028757, AI243218, AA046003, AA620885, AII29000, BE673336, BE882257, AW023862, BE041840, AI587653, H28978, AA085677, R87794, AA428267, AA085834, T80505, AI247913, BF197837, AA111878, AI014838, H22982, T58186, H04232, AL536330, R87732, R81741, AA576671, AA339480, AA464200, AA143096, R36593, AA357180, T58072, H22775, R36594, BF733978, R27870, AL527071, AV753531, AV752854, AV751871, BF245058, AI566375, R27781, Z42184, AI709192, R81498, AW605869, N68098, N80539, BF832996, AA341976, Z38439, BF825158, BG001663, AL516625, AI537042, AA321931, BE184591, AW379008, AA046002, and AK000452.
HLQEW26	844	874356	1 - 855	15 - 869	AL038549, AI459234, AW511135, BE855861, N66469, BE328396, AL138369, AW029587, AI220238, AI283575, AA724654, AA937029, AI680995, AV725607, AW470697, AA206032, BE466570, AW169155, AI376220, AW316658, AW183089, BE047454, AI627582, AI312875, AI354763, AI682197, AW104886, AI587626, AI263311, AI537857, BF448872, AA934879, AI277741, AW024559, AI368080, AI280172, AI351850, AI263361, AW262729, AI630572, AA424860, AI002590, AA912940, AA085699, AW304237, AI620779, AW026862, AI808595, AI291942, AI751934, AA425630, AI698952, BF445622, BF514790, AI124072, AI950171, AI189704, AI937264, AI365291, BG055283, AA621559, AI309792, BE674295, AA745892, AA126512, AW103417, AW075551, AA430399, AI986369, AI857483, AI381986, H96355, H03283, AA886639, AI382033, BE219861, AI270383, AI927252, AA725593, AI933513, H87798, R40313, N91814, H12461, AI270420, AI351934, AA149365, AI095075, AW029024, AW135213, D20300, AA382563, AW887351, BE896465, AW887357, AA991646, AA236258, AI371518, AW887411, N95628, AW374703, N66449, AW887340, R18960, AI923570, AW769598, AI312435, AW948970, BF793017, AW003133, T24439, AW022616, AI660981, N86334, BF882909, AV735057, R49119, F03575, F03574,

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HNGEZ52	847	874434	1 - 2030	15 - 2044	AA305281, AW962352, AW188435, BE042762, AU124525, AV751184, BE904633, AU128008, AA865072, AF118637, AK001419, AF192387, and AF239767. AW516242, AV725115, BE176779, AW961941, AI570379, AI559155, BF696636, AA904265, AW517143, AI632377, BF665204, AL526910, AI908495, AA194914, BF700570, AI982908, AI803264, AI633577, AI084507, AII28085, AA532742, AA907767, AA452533, AW591165, AA443367, AW452815, AA531126, AI473675, AA446943, AI539836, AA884619, AI580399, AI374846, H06611, AV753197, BF000410, BE731087, BE768510, BE768736, BF435883, BE744744, BE768747, BE176834, AI800892, AI651364, Z44955, AI285463, BE768744, BE768569, BE768502, BE768616, AW993029, AA902992, AI908497, AI337672, AL527069, BE768609, AA252141, H07121, H01246, BE768495, R68930, R36894, AW169967, D61478, BE897309, AA255657, AA194915, AW193058, AA433980, AW183446, Z40704, BE261655, BG163270, BE541795, BE768465, R39412, BE763768, BE788891, AI049770, BE769273, AW905715, BE769267, BF828736, AA348650, AW904986, AW904983, BF244108, BF693493, BE671647, BE768678, BF693710, BE768715, BE140267, AW806502, BF374293, AI652350, AX011642, and AK026904.
H2LAY37	848	874446	1 - 2110	15 - 2124	BF034560, BE799666, BF793199, BE269289, AW960415, BE537586, BF688463, BE887882, BF965898, AW959934, BG111082, BE735957, AW673634, BE895085, BE302774, BE387075, AV709329, AA447249, BE266632, BE297860, BF511242, BE617837, AA868337, AW403529, AA682464, AI018520, AU159352, BE836742, AI937152, BE741975, AW806987, AA307180, BE279607, AA315814, BF365698, BG033916, AW028058, AI264178, AW802811, BG054841, AA524689, AW152265, AW731628, BF725946, BF510162, BE205911, AA449314, AW071947, N24989, R83173, W76161, AI417359, BF378742, AU153106, AA533087, AI869267, H93269, BE794278, BE782399, BE742535, AA972773, AI362084, AII44350, AW403175, T27076, W73886, AI354553, BE162755, BF205235, AW383581, AA281893, BE514688, BE617371, BE902001, AI740687, N76349, BF980456, AW514602, AW771177, AI937117, N92758, N91323, BE694604, AA774296, BG106930, BF305287, BE155676, R69667, BE891684, AW959942, H72455, AW374364, BF155437, F11244, T27065, BE798908, N70080, T03761, BE155626, BF971206, AI418588, BE065554, AW748996, BE155602, AA480587, AI356770, AI249170, W60541, R70825, H73749, AI050012, AW050481, BF838994, R76771, AW749000, BE155633, BE065555, AW382732, AI092071, BF087084, H52372, BF837341, BF087090, BF087043, R76458, AI523534, BF108924, BF087091, T58620, BF205889, AV745171, N55356, AA449877, BE155599, R88107, BE278962, W19412, BE155702, BF591518, H60235, AL048494, AU149657, R24811, N24492, T27075,

					Accession numbers
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HCRND05	849	874528	1 - 1449	15 - 1463	BE312404, BF316832, BF314749, BF315081, BE314877, AI760170, BF314377, BF315285, BF206474, BF829200, BE262228, BF310453, AI150687, BF809865, AU158613, AW273858, AU148518, AU149720, AI400198, AW062695, AI924082, BE262581, AW087415, BE047624, AI689214, AI684707, BF207275, AA526748, AI566857, AI377786, AW167628, BE161394, AA525309, R65808, R32753, AI927229, AW663929, R32754, AI242434, AI927230, AI701965, AI956002, AI867076, AU156607, AW292033, BE185584, BF349416, AI368435, BF354201, AA897436, AI612972, AI221593, BF351651, BF351668, BF206107, BF314579, AI364630, and AK022603.
HCRNP66	850	874529	1 - 522	15 - 536	AW392670, AW604723, AW858526, AW858525, U46347, AL119457, AL134542, AL134531, AW804686, AL134536, U46350, AL134527, AL043003, AW363220, AW384394, AL134533, U46351, AW861889, AL119324, AW858455, BE705903, BE705906, AW577135, AL119443, AL119396, AR066494, AJ279014, AJ251859, AX030435, AR069079, and AX046357.
HNTMD17	851	874559	1 - 1823	15 - 1837	AL527594, AW967487, BG032824, BF984614, AI949652, BF476493, AV761591, AV762400, AU149224, BF211531, BF693783, BE739312, AI685745, BF239022, AW195069, AW612290, AI052515, BF243286, BF216945, BF669995, BF238940, BF699936, BF247385, BF027861, BE502492, BF028644, AU156747, AI697062, BF589168, AA280974, AA707923, BE671578, AW591068, BF696615, AI218290, AI199847, BF976945, BF207926, H98774, AI144534, BF246727, AI073884, AI668804, N46000, N23495, BF210938, AA011443, AI689592, AA251688, AA011444, BF670972, AA453078, AI436247, AI080750, AW248798, AA716253, AI275839, AI122970, AI453068, AI768147, AA844253, AA718935, AA725825, AA199845, AW268712, AA682515, AW838099, AW339219, AI498394, AW339546, AA772711, BF445503, AI445896, AA719969, W60548, BG120682, AA917362, BG168012, Z39539, AI003641,

					AW084055, AW084063, AA251094, BF435876, T77877, BE566386, BF697047, AI536979, R15292, BF215896, Z45463, AI942282, AA506048, BF688027, AI623949, F03470, F07768, AA838154, F04328, BF977907, AI611294, Z42543, H22527, AI674943, F02062, BE738868, Z40852, AW971524, BF688108, AI364258, AI962091, R42198, Z44339, AI025438, AA452910, AW235780, BF679924, AA091738, BE881884, BF666663, R58217, F06562, W04953, AU125593, AW377760, N45999, N55694, BF350996, AI985580, AW804489, BF968536, BE769555, AK001902, AL117543, AK022695, AF244542, and AL132821.
HMCGZ52	852	874610	1 - 1503	15 - 1517	BG167520, BF246502, BF031122, AW814060, BF222363, AI638649, AA554045, BE940623, BF102783, AI916034, AW363225, AW363239, AW363251, AI636959, BF247687, AA994913, AW195875, AW853933, AW363235, AW363241, BF211275, AW814059, BF349386, AW843782, AI824374, AA928829, AW843781, AW363263, BE167242, BE867781, AK024865, AL136084, and AB048901.
HOSOL09	853	874620	1 - 1416	15 - 1430	BF793567, BE894883, BG261393, AI913535, BF696173, AI762854, BF111628, BF223142, AU150744, BF694284, AI677912, AI758705, AW968852, BF130221, AI825702, AI740876, BF445423, AU150024, AV651084, AA412665, AI800271, BE871943, AA883055, BF031657, AV651773, BE568561, AI823434, BE537311, AA134753, AA845774, BF526053, AA491093, AW204604, AA598723, AV684088, R73497, AI535824, R73498, AA134752, AV695057, AV697599, AV691590, AV691627, AU128462, AI535821, D62016, AI332677, AA993841, AA293681, BF214247, BF793500, AI598069, BF993112, BF995707, R77771, N68128, BE541011, AA761684, AW748412, BE939096, AW370473, AW370408, BF377686, BG167577, AI758562, AI754802, BF987010, AA075272, AK022558, AK022818, and AF233321.
HLQHJ48	854	874643	1 - 1709	15 - 1723	N62913, BF028797, AU137173, AA453825, AA453744, AI028283, AU157061, BF366160, AI804261, W01391, R53262, R53262, AI084483, H09694, AI808264, BE764811, BG005245, R43890, R19537, BE565706, BF944700, BG011233, BG007528, AK001975, and AB040894.
HTTDU01	855	874708	1 - 1641	15 - 1655	BE311749, BF313052, AU137438, BE273683, BE739364, AW105143, AW664998, BF698023, BF666604, BF670879, AU126957, BF669135, AA307599, AI971445, BF216844, BF701464, AW614994, AU154397, BE896630, AU132973, AI017401, BF672677, N53419, BF541947, AI041077, AI864277, AW954675, BF700557, BG110382, BF576810, AI494173, BE173729, N53432, AA580971, AA196917, BE839275, AI613044, AA370694, BE831801, BE739606, BE958371, BF700305, and AK001355.
HOSMQ26	856	874847	1 - 1315	15 - 1329	BE891805, BG026162, BE891716, BE777516, BF185329, AW964042, BF247874, BF573747, BF239956, AI660037, BF897795, AW804995, BE939552, AW804691, AI299786, AA829747, BF697580, BE545900, H56186, BF697577, AU153511, AA352328, W38841, AI161351, AI148191, R96121, AA995008, AI193065, AI017193, H56403,

HE8FA47	857	874915	1 - 1578	15 - 1592	AA379061, AA190904, AA904070, AA379060, AA075300, BE887804, BF115041, R96080, BE963111, AA191311, AI439209, AA146764, AA146875, N92519, AA503807, AA649029, AI140061, AW518742, AI379863, BF222229, AI803876, AA577360, AA577361, D38550, and AL136303. BF966613, AV684729, BE856253, AW028063, BF967767, BF476032, AW025205, AI936938, BF513083, BF112039, AI553845, AV721664, BE874632, BG032797, AW118083, AW968377, AI627928, AW629496, BF183036, AV725683, AW469390, AV654724, AI805469, AI818906, AI283403, AW074838, AI421269, AA037314, AI027476, AA926654, BF515401, BF739803, AI291304, BG036935, BE835358, AW001973, BE835421, AA937950, AA861680, AI304767, AA465446, AA731671, BF107095, AA970745, AA102090, AA923662, AI309195, AA463457, AA854770, BG058506, AA972072, N33417, AA568740, AI276170, AI718178, AW182398, AI002643, AI277271, AI384119, AA804207, AA905140, AA934048, AA907546, AI694431, AA610079, AI221597, AA905147, T87107, BF240167, BF978144, BF081332, BF977973, AI809900, AW086166, H90090, AA055922, N57371, BF370065, AA868005, AI268390, AI204193, N31503, AI554900, AI806731, R99432, AA056234, AI358287, H94078, AI041581, D62387, Z39858, AI290395, AA628706, AI220793, AI709171, R99338, AA872540, H90000, T87106, AA311659, AV736624, AA056233, T78750, D62053, D61964, AI525281, AA443018, R39324, D79318, H94093, D62068, AV661245, H94077, AW138972, Z43792, C15485, AV654948, AA258407, AW189588, AW270804, AW304064, AA099343, AA988126, AA907286, BF107110, T19459, D62335, AI873020, AA890504, W86144, AV747841, AA258486, D56193, Z21289, AW079830, AA037041, BE042468, T06711, AL080115, AF077038, AX002924, AX002922, AC010134, and U9638.
HMTME42	858	874948	1 - 667	15 - 681	AV755653, AL534593, AV682473, BF382207, BF694676, BF031924, BF672575, AV701144, AW960705, BF028851, BE245858, BE882775, BE274604, BE170497, BE565880, BE543312, AV763237, T30659, BE972450, T36307, AW844661, AV735121, AV763241, AV716983, AA207131, AV704933, R10567, AA341545, Z19513, R00732, AL036067, R07573, R00641, AA251223, BF209242, N53922, AI084025, AW844819, AW772507, AA476649, BE707511, AF117230, AC018812, AC020751, AC087095, AC068314, and AF229032.
HRADL60	859	874960	1 - 1645	15 - 1659	BE888196, AW384788, AW964389, BE931480, BF038263, T27255, AW384791, AW836699, AW631098, AA304886, AA099378, BE565374, AA451957, AA505179, T34664, BE220605, AA009984, AA281712, AI942304, AA304597, AV748389, R86031, AA405783, H72221, BF995073, BE167971, N28524, AA299273, AV648271, AW805908, AA443927, R30666, AA405718, BF755461, AA444106, BF112167, BF931193, AK025713, AC005702, and AC004167.

HWLMB5 5	860	875096	1 - 1935	15 - 1949	AW959192, BF945237, BF816021, AW804037, AI240393, AW079532, BE858477, AA233899, AI378406, AI334149, AI377537, BF726360, BF724589, AI373157, AI682218, AW879254, AA917421, BF095556, AI302603, AI275504, AA878927, BF095624, AA687886, AA989418, AW150835, AI057286, AA358936, AA359473, AI499788, AI300066, BF095734, AA991861, R00226, BF215967, AW189691, BE741600, AA234127, BF960074, R00332, AA447855, AI168696, BE936719, AW879257, AW879253, AW392552, AW994585, AW392555, AW014053, U46347, AW271265, AK025273, AX035283, AK026918, U06713, and Z64069.
HUSGZ51	861	875230	1 - 1736	15 - 1750	AL517634, AL517971, AL517972, AL515989, AL517972, AL515988, AU118450, BF686315, BE314606, BE311983, AU134418, BG176571, BF797461, BG176602, BE732624, BE297927, BE888878, BE902600, BE896889, AU136579, BF975619, BF306037, BE409563, BF794819, BG178336, BE251813, AI087290, BE255925, BG026595, BE254667, BE280340, BE408438, AA314782, BE267498, AW179125, BG121337, AA523272, BE900932, AI560684, BF313784, BE250782, AA579606, BE296863, AA640956, BG236079, BF211969, BE278280, BE672516, AI720545, AW851439, BE221249, AI074178, BE298962, AU159875, AW149795, AW410915, AW166078, BE260235, AW118155, AW960580, AU155010, AA205791, AI391438, AI765281, AI609316, AW608819, BE162597, BE301012, AU145006, BE674727, AU146132, AA307196, AA121597, AA315619, AI953795, N52021, AA779860, AW410914, AA703024, AA209384, BF674949, BE205754, BF541257, AI281937, AI310367, AI144263, AI344516, AI831727, W86254, AW302283, AI340041, AI279307, BE880639, AI436289, BE279603, AW105659, AA633097, AV737941, AW510312, AI695155, BE900356, W32418, AA551904, AA148974, W74338, AA421728, W93878, AI358041, AA197331, AI095949, AV709826, AA765423, AA505683, AW851262, AW305323, W44995, H59781, AW95290, AW264214, AI919481, AA18271, T36279, AA151175, AA291907, AW302470, AW341966, AA505639, AA605045, AA908343, AW440055, AA151174, AA221000, N75397, W42974, AI613309, AA489080, AA293613, AI720799, F12658, R92424, AA375932, BF527093, H89645, AI609078, AI915333, AA361612, AA385968, AI216131, AA577628, AA167443, F10273, AA917404, AA908807, AI022478, AI699705, N54634, AA205790, AA148973, T74241, W86272, AI918214, W05068, BF764918, AI565022, AA877979, BF740676, R06594, AA353399, W42975, BE019031, AI886523, R06593, AA831892, H59782, T16649, R06648, AA377635, R06649, AA327430, AA782357, AA706130, BE937092, BE547170, AA093998, H89499, AW264309, AW291011, AW876946, AA249242, AI735296, AW875704, AA888017, AA877802, AW169510, BF083673, N40506, AW273061, AA339272, W07625, W79791, W94149, AW179204, H95275, H04095, BG151465, BE938656, BG151073, D11556, AW376214, AB026125, AX048087, and AK001028.

HWDAN8 6	862	875249	1 - 1191	15 - 1205	BG029466, AV706034, AI222785, AI598156, AA131643, AA626884, BF036649, AI571234, AI094146, AI608599, AA203111, AA770214, AI338243, AA436283, AI085480, AA577314, AA436157, AI224507, AW081389, AA131533, AA934527, AA631769, AI348255, AI870284, AI278842, AA971726, AI369248, AA551996, AI274146, AA279453, R63988, AA021050, AA551781, AI869674, R78856, BG056695, AA551934, AA678694, AW151699, AA284976, AI202603, BE740841, N64789, AA471054, AA730072, AA324335, AA707878, BE774969, AI081594, BE717107, AI520678, AI263743, H95836, N76200, BE770889, T15486, N80747, H30520, BE673804, AI918182, AW675278, AA283618, AI474363, BF806759, AI097586, AW135978, AI206104, AI242964, AA939087, R69061, AA922420, BE770975, BE879846, AA291551, AA872629, BG056718, BE223034, AA742282, BF111769, AI340009, AA770407, AW873159, AI301870, BE206676, BG056655, H05532, R34726, AI278735, AA532553, AI203119, N52849, N22046, AA962696, BG055182, D25896, BG011166, R23915, AW131992, H44615, AA419231, R49598, AA425955, T34728, AI718310, R79345, AI805179, BF840958, T46915, R63904, AW292997, BE208400, AA365446, C02552, AW371102, BF825608, BG010487, BE717176, AI651804, H95835, AI074093, BE903315, AW071145, AW952487, BG254191, AL021155, AX018173, and AX018065.
HFATS83	863	875269	1 - 457	15 - 471	AC010868.
HBION06	864	875295	1 - 2283	15 - 2297	BF966926, AI096371, AW026983, BE675256, BE856985, BG112325, BF313094, BE387702, BF527842, BE892016, BF791888, BE313399, BG030121, BF312239, BE395476, AI813506, BF568526, BE671545, BF126007, BE258514, BE018768, BE261326, BE784516, BE392280, AI022087, AA292263, AI814357, AA278622, BF526583, AI417005, AI952295, BF114754, AA488980, AI703092, BE675183, BE257824, AI922942, AW583230, AW411172, AA706326, BF433201, AW968974, AI222918, AI378263, AI275108, AW072442, AA009977, AW500651, BE313282, AI417028, AA461282, BF829851, BE543646, AI809307, AA485429, BF528516, AI283280, AI159815, BE383669, AI625949, AW193443, AI423425, BF836072, AA022909, AA278619, BE794420, BF836066, AA557198, AW104920, AA485593, AI057476, AI272950, AI334199, AI742862, AI033680, BG261000, AI087943, AA626036, AI805266, AA022977, AA460972, AA258336, AA804522, BF836062, BF870248, BF801885, AW136424, BE676774, AA844188, BF940449, BF509137, AI740853, AA278946, AW978449, AW401969, AW139461, AA040603, AI214120, AA063603, AW409894, AI424954, AI831028, W84629, W79625, AI568977, AI291416, AW473862, AA489202, AA488758, AW207462, H10442, AI038632, AI347231, AI564834, AW193442, AI799803, H51352, W79481, AI263269, AI359853, AI828643, AA854136, BF823633, AA258500, AA053907, AI017828, AI244605, BE302331, AA843762, AI986253, BF877350, AW262045, AI432653, BF804301, AW382297,

HAPOO57	865	875330	1 - 2878	15 - 2892

AI818809, AI122704, AI144320, AI566791, H40417, AW190837, BE772525, AA428327, BE677447, AA054223, AA036685, AI206428, AA057616, H50514, AA115033, BF568836, AI205680, AI609781, AI086031, AI476664, AI804628, AI587435, T15462, AA115505, F26592, AA829838, M62143, AA588074, AA493185, AA635546, AA516290, H45601, AA705407, AI523980, BF057494, AI349422, AI082342, AA854370, AA040686, AA018100, W84680, AW381714, BF742078, H45660, BE843327, BE243712, AI523662, BE720180, AI559721, AW601952, AW576325, AA047781, AI813689, AA149257, H40805, N93711, AA428852, BE832334, BE938371, AA504224, BE799430, BF886483, BF944304, F35198, AA811062, BF756782, F27420, BF756715, BF663277, BE938291, BF326394, R90839, AI000486, AA149272, F24350, R47803, AA830623, W21098, AA844116, H10443, BF088729, AA009978, AA853670, AA065147, H65177, BF761729, AW407536, BE243713, AW601824, H65121, AI344593, AA768075, BE070423, BF438701, AI343686, W42938, AA890426, AI824215, BE929287, BF757566, AI915445, AA018099, BE870086, BF836067, AA830406, AW768975, AA729090, AI619647, BF758306, AW411171, AW661913, AA996026, AC004528, W42874, AA962138, and AA975654.

BE897903, AI207720, BF968082, AW953725, BF380509, AV698376, BG023942, BF572409, BG107589, BE738071, BF795586, AI568519, BF184542, BG114226, AA143047, BE393275, AW515777, AV714869, BF541469, AW168109, AA609408, BF669653, BF115650, BE867879, BF357377, AA868581, AW242902, AI057606, BF029429, N56907, AW966802, BF357352, AA481152, AW664127, BF239712, AI623695, AW664580, AA288023, AI539097, W51975, AA477324, AI571853, AI190703, W48680, AA150906, AV712744, AI051340, AI050869, BF209797, AI979017, AA479639, BF764926, AI336466, D19589, AW058037, H97703, AW964417, AA632153, AA434552, T30222, W90679, BG054859, AI591175, BE738227, AI440180, AI828435, AW900007, AW193921, AI364090, AA481230, AA403025, AI889568, W15362, AA917662, AI159897, W79496, N55040, AW105662, AI095249, BF983593, W38894, AA480262, W69239, W78146, AA742943, BF928514, AA769381, AI524433, AA427919, AW771872, AA405004, T10077, AA004675, AA551723, AI912293, W69113, AW675144, AI243906, BE328526, AA303149, N38921, AA293356, AI347437, AI910478, BG150250, AI970032, R65611, AI873930, AI097122, AA354187, AA764765, AA348250, AI587352, AA398425, AI500572, BF799732, H03063, AI220688, H03062, BF880217, N59269, N51221, BE242544, AA281842, Z40916, AW078605, AA318719, AA318431, Z45191, AA004254, AA283937, R18355, R18529, AA318723, AA352306, AA348251, R21184, H96302, W39321, R22802, AI368470, T10076, BE089090, N75368, AI914889, AI671045, BF919661, AA367666, W90680, BE766137, BF737592, BE208678, R41519, N46493, AA431472, AA292820, R42559, AA541549, BE148919, T24635, AW380917,

HCROG59	866	875405	1 - 742	15 - 756	BE565258, BE818245, R61333, AA094363, AA367665, BE006624, N76739, BE302651, R28832, BE765611, W01812, BE765929, BE765675, BE765585, BE765976, BE765793, AA398225, H08711, BE765898, BE006623, AW009946, BF817156, BE148946, BG166937, BF977054, AW752821, AI225015, AW438413, BE714408, AI439406, BE150353, AW276441, AW376950, AW376951, BF894381, AF130099, and AL110135.
HDTBL01	867	875452	1 - 919	15 - 933	AU118469, AI275431, AI168345, AA406609, AI280460, AA411636, BE930682, AI627293, AI628781, AI241297, BG259760, AA317871, AA598485, AI360110, AI968510, AI498174, AW468650, W02842, AW664912, AW954896, F34577, BE670348, AW665568, AI697614, AW079061, AI200289, AI804773, AA502751, AU145024, AI694751, BF846058, AW173045, AW300325, T49800, H85591, AA993934, AA468896, AA098853, H86495, AA039749, AA889681, AA909667, W87459, AI764965, BF930587, AW083698, AK001031, and AC005746. AA203532, BF205946, BF796272, BE733004, BE384865, BE793374, BF315994, AL533065, BG253716, BE266999, BE790811, BE796063, BE893286, BE797306, BF311451, BE900405, AL533064, BE252440, AI885145, N93693, N41419, AA025727, AA845624, BF662920, BE673502, BE409052, AA004723, AI659644, AA854840, AW027228, AI741432, AI924412, AI096633, AA775840, AI799560, AA861825, AI086427, AI609775, AI332770, AA043284, AI147012, AI093396, AI334098, AW339068, N36820, AII27039, AW152492, AI310403, AI479699, AI333810, W37902, AI026761, AA779438, AW016793, AA846751, AA883270, AA043623, AA768520, AA481110, AA595137, AA599087, BE397162, AA004625, W21031, AI493429, AA705148, AA729311, W69693, AI609767, F24839, AI309955, AA147299, AA394002, AA725144, AA847834, AI028144, AA284640, F36989, AI015001, W46526, AA577464, AI074328, AI199865, AA719946, AI368754, N46038, AW952050, AW974250, AA700697, AI249119, AI284226, AA399341, F26291, H66106, AA639243, AII98805, W37962, AI863889, AI364330, AA639095, BE263224, H95487, AA834779, AV695666, AI204589, AA504802, AA480281, AV691477, W16986, AI300686, H66059, AI184257, H22374, AI357340, AW264139, AA638994, AA025726, H93397, W05101, R33568, BG165558, AA386074, AI268427, AA731877, H94967, AA282671, AI310952, H81961, AA846871, AA907906, AA983160, AA317755, AI088526, AI033455, BF209411, AA304404, AA834753, N74712, R33466, N92916, W04851, C03398, AA593219, AA356363, AI095031, AV654718, AI707597, AW162955, AA147187, AI968038, H93396, T25738, AX011676, AF250841, AL137489, AX012188, and AI262007.
HHFJY07	868	875510	1 - 539	15 - 553	BE177664, BE729827, BG121760, BF338210, BE172927, BF367007, R69492, AI889082, and AL158049.
HOFMV44	869	875558	1 - 1342	15 - 1356	AW968462, AA459463, AI219490, AA705318, AA459242, AA574007, N44974, N33185, AI246251, AW270960, BF439150, W96335, AI247249, AW118922, BE815328,

					BE815333, AL049870, and AK000088.
HSLJN60	870	875559	1 - 689	15 - 703	BE545153, BF848801, AA043203, BF848741, BF804475, AA633788, AA779964, AA077596, BF801908, AA993172, AA721605, AA993810, N58116, W02490, AA250756, AA410936, AA812535, BE876668, BE972250, AW105026, AA978273, AA912417, AI015512, BF819706, AA323882, N74558, AC002542, AF234883, AJ277291, AF234882, AF234884, and AF234885.
HWHGQ44	871	875575	1 - 1225	15 - 1239	BE396242, BE883111, BG258182, BF905988, BE764655, BE779317, AW801067, BF815789, AI688169, BF528944, AA338146, AV690655, BF926557, R89027, AW801625, AA342099, AA339528, AA339528, R73223, R15670, AA366174, BE181430, BF925266, BF926547, AW891182, BE764630, AW579250, AF252258, D86970, AF104984, and AB026497.
HCQDA63	872	875590	1 - 1415	15 - 1429	AL538426, BG167517, AV722943, AL538427, AV722721, AW589944, AI522107, AW590231, BF062663, AV714268, AV724112, AI378319, AA234318, AW614238, AI692527, W38548, AV704397, AI290259, BE464619, AI470641, BE045840, R19919, AA234561, AA973961, AV702216, F11345, F09005, R45139, BE671396, AI470879, AW132159, BE326399, AA482991, AA098920, AA146698, H59248, H28631, BF445024, H28612, AA205262, N56056, AW972158, BE544675, N90091, AA095089, H68801, AI341225, BE396063, AW001798, AA205188, AW852858, AC004067, AC002091, AC003695, and AL133240.
HMUBG89	873	875597	1 - 791	15 - 805	AU159073, BE549541, H98768, BF694425, AI300431, AW630304, AI076535, AI082879, BF510340, BF438110, AI689961, H03865, N33061, AI701454, AI458282, W07734, BF195232, AI263212, BF093304, R46614, T67479, AW615056, AI991356, AI654356, N78714, AI696043, N23489, and AK023901.
HCFCS58	874	875638	1 - 2215	15 - 2229	AL533103, AL527989, AL527989, AL528652, AL523047, AL527057, AL527093, AL530947, AL523026, AL527988, AL528651, BG028753, BE906415, AL515511, AL530946, BF795026, AL524166, BF529536, AL524167, BG109320, BG117399, BF109728, BG108337, AI373860, AW474739, AI142548, BE645078, AI160244, BE409222, AV748964, AI803364, BG253740, BE674527, AA732841, AI435516, AI095583, AI076620, AI167180, AI936640, BE858213, BE410603, AI339776, BF195536, BF195714, AA969232, AW593262, AW137670, BF056059, BE670549, AI391504, BF112238, W68702, AW207539, BE644982, W79914, BE537964, BF526060, AA917467, AI459137, AI148710, AA287408, BE327654, BF115279, AI762559, AI040652, AW026057, BE464991, AA522920, AA866005, AI016161, AA055361, AA625635, W23647, BF590067, AA707093, AA913826, BG014310, BF430963, AI083994, AI015839, W69531, AI796928, AI890078, AI830098, AA937098, AA305157, AI581290, C01766, AI050874, AW583835, AI199472, BF002462, AI097584, H92773, AI074517, AI074538, AI151312, AW028614, BF112128, AI674344, AA305656, AI990059, BF437108, R62238, BF940920,

1428

HWLMC49	875	875704	1 - 619	15 - 633	AI095293, BF111223, AI052777, BE538620, AA287357, AI085262, AI354825, AW629524, BE887668, AW665508, BF196713, AA282043, BF116150, BF222052, AI828501, AA989141, AI936658, AA917921, AW207658, AA581990, H66449, AI809556, BG014227, H66448, AI087807, AA976485, AI089883, AI161211, AW102710, AI370809, BE676767, AA282205, AA358542, AW054857, AA810757, F13499, AA876563, AA215693, BF948701, AI084131, AI828164, W74293, F22539, AI870008, AI671095, AA476727, BE876093, AA404240, AA831950, BF941746, AA026585, AA370269, AI359885, BF057328, AA631293, AW340672, AL121501, N31738, D19607, AW470863, AA423998, W68795, BG014223, AW301681, AA037423, AA744671, AI498589, AW518575, AA705091, AII85927, AA425621, BF196679, W24523, BF195246, BF432112, R83202, AW072175, AA886734, AI568422, AII28796, BF195629, AI423010, W39033, N92339, N27093, BE327180, BG014314, AI906207, AI354764, BF196187, AI829997, BF870069, AI216318, AI292222, W24115, AW627992, AI700186, AW166486, AI808019, AI417379, AI274365, AI192992, AA327411, AI801970, AI560400, AI334057, AW205138, AW135446, AI356227, AI418487, AI334250, AI301676, Z39418, AW206667, AA026695, BF817268, AA449697, AA307877, W69448, AW136707, AI356196, AI858772, AI268621, BE504370, AW054727, AW206873, AI077709, AW300595, AI394380, AI369492, AI300626, AI702163, AW137374, BF832752, AI366348, AW104420, AW628019, AI354931, AW137612, AW779061, AI349587, AW072219, AI300618, AA362894, AI356229, N92547, AB030186, AJ132110, A62300, AB028859, AF058696, A62298, AR018138, A84916, AR008278, AR087649, AX033851, AX027925, AR070327, AX047063, AX047064, A82595, AX021518, AB002449, X67155, AR060385, Y17188, D26022, Y12724, AX035434, A25909, A94995, AX028130, AX020191, A67220, D89785, A78862, D34614, AJ302649,;AX020190, AR008443, I50126, I50132, I50128, I50133, AX047062, D88547, AR066488, AR016514, AR060138, A45456, A26615, AR052274, X82626, AR054175, AR074139, Y09669, A43192, A43190, AR038669, AR066487, AR074136, I14842, A30438, AR025207, Y17187, A63261, D50010, AR008277, AR008281, AR091537, AR062872, A70867, AR093385, AR066490, I79511, AR016691, AR016690, U46128, X68127, AR008408, I18367, AF260572, X64588, AR077702, AR074545, AB012117, D13509, A64136, A68321, AR092424, AR060133, AX015396, AF123263, AR071754, AJ287395, Z82022, A85396, AR074141, D88507, AR066482, A44171, AR088705, AX042372, AR032065, A63887, AR060382, R05573, R83201, AA026584, AA282321, T12621, F10607, and AI471239.
HFCDF47	876	875724	1 - 1163	15 - 1177	AA827244, BF685458, BF508881, T79702, BF678577, T82086, BF750493, AW854300, AW754459, BF736361, AW749155, AC010326, AK000820, and AK026676. BE735031, AI817320, BF873444, AII47544, AI669712, AA610839, BE267317, AI955720, AI056448, AI056793, BF437764, AA402968, AI982764, AA909968,

HCRNJ24	877	875794	1 - 741	15 - 755	AA643704, AV699895, AI499360, AW169601, AA832501, AI284966, AW272685, AA65839, BF855848, AV723055, AW627947, AA922928, AA653898, AA470857, AA911776, AI359243, AI423624, AI587214, R14201, AA316613, AA883307, R37484, AA531527, N74317, AI089835, BF930907, BF222502, BF858992, AA915883, H04547, AI381713, AW961300, AA702343, BF85898I, BF792318, AV690851, AW969352, H04468, AA059276, D30942, W05225, and AA401934.
HCRNT27	878	875817	1 - 542	15 - 556	AA827926, BF593180, AI860653, AW161711, AI808773, BE673369, BE738694, AI636695, AA741501, AA740727, AI889967, AW853885, AW070423, AI075387, AW591180, AI754281, AI300905, AI150922, N62430, BE549526, AA142986, BF939598, AW243049, BF791127, T88858, BE935223, BE747336, AW298247, N67204, AI866174, BE737323, AU138991, BG034563, AA150916, BF894218, AI830959, AW361300, BE940709, AA630806, BE738126, AC006011, and AK002156.
HCQCC37	879	875825	1 - 594	15 - 556	BG023796, BF754616, BF309111, BF306586, BF973469, and AL035461.
HFXKZ44	880	875911	1 - 514	15 - 528	AL046573, BF372979, and AF236061.
HWAAD1 5	881	875938	1 - 709	15 - 723	AW960442, AAI59569, AA305680, H64054, BF346733, and AK024637. AI479334, AL525015, AW977338, BE221343, AU149247, AW438880, AI969482, AA740980, AII51466, AI670122, AA877322, N63143, AI422330, AA694453, AA766111, BE394853, AI277749, D20155, AI633803, AA910174, AU131672, AW002649, AF102851, and AK022700.
HDABX38	882	875997	1 - 1078	15 - 1092	BE731020, AU134027, BG258299, BE747762, BE882028, BG253085, AL044251, AU125948, BE781890, BF747692, BE869313, BF331660, AW812549, BE875296, BF747701, AA471381, BE172584, BF747559, BF688342, AL536911, BF331648, BF331653, AK000318, AK022744, and AK023347.
HETIZI4	883	876053	1 - 2977	15 - 2991	AI828035, BG252052, AV756210, AU123887, BE786223, AV701078, AV655712, BG165299, BG257125, BE617430, AA741569, AA723133, AA810931, AA465301, AA831595, AA521126, BG107088, AW470768, AA004609, R70874, AI004766, W27345, AV755560, BF213612, AW958490, AW504907, AA223681, AA765139, N55743, AA309793, AIS47174, D30931, AW006835, BF031489, BG169549, AV749644, AA385103, BF572774, AA188081, AA210803, BF216538, AI792960, AA766608, BF691749, T93982, AA074968, AV758414, AA641746, AI928011, AV717340, AA766506, AW999671, AA974976, AA248504, BF577234, BF679448, BF028390, BF690890, AI564468, BE241647, BE087801, T18521, BF690968, BF130452, AW947064, AI634813, AF158555, AF097492, AB020645, AF223943, M65150, AK001220, AK025021, AF097494, AF279697, AF097493, AC005540, M22586, AF097495, and S80644.
HFCFB73	884	876111	1 - 2141	15 - 2155	BG171706, AU123343, BE891580, BE874295, BE616374, BF691382, BE272309, BE905589, BF205087, BF339506, BE781116, BF689464, BE790068, BG171568,

BE891260, BG027340, BE740064, BF038581, BF308118, BE746860, BE275518,
BF797209, BE866834, BF530627, BE868265, AI765620, BE394238, AA725071,
BF205315, BE735628, AV695789, AV691685, BF978180, BE304656, BF131943,
AW993028, BF701185, BF029881, BG122640, BF724883, AW271710, BF306634,
BE890307, AU129426, AV692294, BF308542, BE549980, BE855449, AW299864,
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BF088012, BF088026, BF130329, BE936324, AI634990, AI654165, BF593983,
BG165351, BF939873, BF088032, AU151546, AI991405, BF923670, BE936318,
BF088037, BF592056, BG250837, BF088024, AW168930, AW750352, AI670830,
BF088028, BE936364, AI983985, BF088019, BE275459, AW602075, AW750348,
AI570128, BF182742, BF197216, AI749744, AW000916, AA861614, AW009948,
BE785660, BE349529, AA704525, BF203431, AI276897, AI955276, AI676055,
AU126667, BE549294, AI492455, BF203360, BF898194, BF880528, BE936352,
BE468207, BF102773, AA890343, BF983492, AA430567, AW167370, AI681128,
AI796805, AW275120, AI089414, AI659635, AW419101, AI635116, AI700668,
BF971066, BE221529, AI968287, AI361022, AW592400, BE858834, AW276391,
AW614823, AL121534, AI912091, AI935478, AI955265, BF573804, AA699534,
BE857580, AI216100, AI718821, BE349946, AA587495, AI935972, BF821491,
AI025329, AA030011, AI308169, AI342565, BG012643, BF923020, AI300305,
BF848195, BF436974, N38817, BF898192, AA189132, AI298732, AI628899, AA404726,
AA704532, AI018477, BF572796, BE302369, AW752990, AA115429, AA628480,
BF088010, AA774557, AW752951, AI131166, AW752948, AI686341, AI160398,
AA555219, AA045856, AW752946, BF923688, AI983713, AA780575, AW752986,
AW512904, BE677404, BE074717, AI917769, AW384997, BF446418, BF108993,
AI350088, AA774568, AI094833, AI207172, N98698, BF062926, BF928253, AI095199,
W31093, AA216738, BF240462, BF880533, BF923693, AI828631, AI356898, R24001,
AI251444, AI827291, AI263986, AA115428, AA190469, AI347097, AA922079, H05681,
AV687358, BF218904, AA911845, AW022361, AW827086, BF923018, AW897464,
BF365255, BF801661, BF332864, W95063, N66175, T51687, H83131, R74559,
AW471002, BE762765, AI356017, AW341133, AA216518, BE549357, H83132,
AW071576, BF247697, BF306125, BE762774, BG011025, H44274, BF923679, R51880,
BE762767, BE548022, AW295813, AV684676, AW086147, AW898923, AI203034,
AA766045, AI431971, T09309, AI823509, R62584, AI334626, AK001484, AF151803,
AL049839, AL353678, AK025958, I48978, A08910, AF116682, AB041801, S61953,
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AK027102, AF119871, AK000074, AK025708, I48979, AK000618, AF158248,
AF271350, S78214, AL049466, AK026647, AF218034, AL162062, AF130075, AF113690,

H2LAJ32	885	876142	1 - 807	15 - 821	
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D81030, AV718770, D80188, D80166, AW949654, AV718844, D58283,
D80212, AW966022, AV720211, AW959799, D80196, D59619, AV719324, AW966029,
D80210, D80240, D59859, AW966041, AV724520, D80195, AV720203, D80193, D51423,
AV723927, AW978661, D51799, C14389, D59275, AW960553, D80253, AW973541,
AW973334, AV719822, AV720791, AW966054, AV718489, AV718692, AW964756,
AW966050, AV719188, AW973307, D80043, D80227, AW966062, AV718440,
AV718938, AV719783, AV720028, AW959597, AV718633, AW959628, AW965177,
AW975605, AW959570, AW964488, AW965163, AV718800, AW973485, AV718931,
AV720464, AV719557, AV720731, AV699447, AV722801, AV699550, AW949641,
AV699927, D80219, AW959202, AW962245, AW962082, AW949643, D80164,
AW949618, D57483, AW956434, D80269, AW958992, AW958993, AW959136,
AW959062, AW964477, D80366, D80038, D50979, D59889, AV720812, AW960564,
AV721386, C14331, AW949653, AW949633, AV719468, T03269, AV718707, C15076,
D59610, AW965158, AW949629, AW949645, AW949646, AW949632, AW949658,
AW965197, AW949657, D80378, AV720654, D80024, D59467, AW973474, D80045,
AV723097, AW753053, AW956397, AV701004, AW965185, AW965184, AW966043,
AW973447, AW973330, C14429, AW959469, AW752082, AW966059, AW178893,
AW959582, D80241, AV700889, AV742001, AV742667, AW973488, AV701125,
AW965175, AV701335, AV701419, AW973482, AV701166, AV742430, AV701149,
AV701043, AV701332, AV701017, AV701248, AV742048, AV701431, AV700229,
AA305409, AW960504, AW966023, AW975613, AW960473, AW965196, AV720878,
AW964737, D51060, AW975623, AV699669, AV701154, AV701422, AW960570,
AW964766, AW951169, C75259, C14014, D51250, AV699746, AW960454, AW973465,
AV701443, AV744690, AW966560, AW965176, AV718530, AW960532, AV719628,
AV701130, AV701415, AV701344, D80134, AW179328, AV719049, AW178775,
AV699682, AW352158, AW966030, AW378532, AW960474, AV645344, AV720607,
AW177440, AV719000, AV645389, AV681510, AV681491, AV699479, AV701428,
AV701357, D81026, AW966032, AW973470, F13647, D51022, AV681529, AV645343,
AW369651, AW949630, AV745080, AV700622, AW964468, AV742022, AW753041,
AV721784, AW964532, D80268, D80522, AV720533, AV701330, AV720150, AA305578,
Z21582, AW973423, AV718674, AV700159, AV681468, AW966049, AC007695,
AX047063, AX047064, A84916, A62300, A62298, AX027925, AJ132110, AX033851,
AR070327, AX021518, D26022, AX035434, A25909, Y17188, X67155, AR018138,
AX020191, A67220, D89785, A78862, D34614, AJ302649, AX020190, AX047062,
D88547, X82626, AF058696, AR025207, AX028130, AR008278, AJ294956, AR092424,
AB028859, Y12724, AF260572, AB010386, AR087649, AR074545, AB012117,
AX015396, X68127, AJ287395, A85396, AR074141, AR066482, A44171, AR088705,

					Clones
					AX042372, A85477, A94995, I19525, A86792, AB002449, X93549, A82595, AR008443, AR060385, I50133, I50126, I50132, I50128, AR066488, AR060138, AR016514, A45456, A26615, AR052274, AR074139, A43192, A43190, AR038669, Y09669, AR066490, AR066487, AR074136, AF135125, I18367, A30438, Y17187, D88507, AX035429, D50010, AX035428, AX035426, A63261, I14842, AR008408, AR054175, AR062872, AR091537, A70867, AB033111, AR093385, AR016691, AR016690, U46128, A64136, A68321, AR008277, AR008281, D13509, AR064240, AB037923, AR060133, AR087528, X64588, U87247, I79511, AB023656, U79457, AF123263, AR032065, AJ000347, X93535, and AR008382.
HTPIQ89	886	876198	1 - 868	15 - 882	BF508637, AI808815, AI457550, AI911077, AI658931, AI916359, AW009684, BE962972, AW072228, AA579578, AA622141, BE873629, AW973509, AA295027, AA552628, AA594836, BE829872, AA551833, AI167645, BE829868, BE829869, BE829871, BE829870, BE829875, BE829925, BE829863, BE829935, AA576815, BE829887, BE829862, BE829922, W23220, BE829896, BE829884, AF114127, BE869579, AK025424, AB014603, and AL137668.
HTDAI12	887	876209	1 - 1087	15 - 1101	BF848594.
HWLGV14	888	876226	1 - 1299	15 - 1313	BF525338, BF344910, AW860522, AV715407, AF063527, AA573785, AW578252, AV657500, AI421829, BE439672, AI889106, AV713750, AW602040, AI815098, AW082282, AI444641, AW151910, AW602036, AA309046, AW251068, BF433428, AW967154, AI688082, AI935867, AA903732, AV682818, AI342309, AI469758, BF803392, AI301940, BE065335, AI336447, AI660665, AI625318, AI636809, AI559518, AW869448, AI216199, AA974182, AI336445, AV652658, AI476296, AW571542, AI272699, AA865622, BE065255, BF815382, R95048, AI832439, AW939111, AW939116, AW576712, AI908555, AW079674, AV657484, AW576713, BF906388, BE793561, AW802219, AV693996, AW276067, H71284, AI290972, BF342450, AI659188, H41084, AW802076, AV657785, H39231, AV734833, AI865986, AI333305, BF804890, AV656418, R76336, AI914585, AW984005, BF906389, AI590410, BE764658, H12385, AW613578, AA987621, AW886586, R48364, R94963, AV732819, AA639087, AW768254, C20912, AV654089, D45438, BF806092, AV747482, AI274107, AI720940, H70884, AA372940, AW881342, BE793009, AW576709, AW250334, AW887298, AW630142, H15022, AV748922, AI244423, AW192993, AA935031, AW801802, AW797240, AI199655, AW885618, BE796593, AI199654, AW885295, BE834145, H15021, AW885949, BE833516, BE828944, BF757501, BE834348, AW835280, BF525916, AI832803, AV694401, AA593195, BF948168, AW269879, BE154329, AW881925, AA886276, BF818724, AW886501, AI225252, AV699161, BF447300, R45920, AV699206, BF871123, AF115384, AK000841, and AC006479.
HCQBI31	889	876372	1 - 543	15 - 557	AI491957, AA446825, Z42384, W86347, AK024715, AC002064, T73581, T73682,

HE9RM22	890	876418	1 - 1751	15 - 1765	T89320, T89957, R27248, R27450, R48643, H84547, H99963, N28347, N63131, N64745, N76150, AA047464, AA047398, AA086034, AA099567, AA099657, AA165569, AA169522, AA169441, AA173617, AA173616, AA169406, AA215775, AA251330, AA251391, AA258330, AA258494, AA258798, AA258704, AA258149, AA258122, AA419346, AA602860, AA622286, AA683139, AA683138, AA713685, AA743062, AA807661, AA825739, AA825993, AA828448, D78955, N87351, AA165525, AA210972, AA211395, AA416558, AA845854, AA971491, AA985073, AI023629, AI073499, AI090846, AI092089, AI093295, AI096814, Z41403, Z45751, AI302012, AI357671, AI367709, AI367710, AI201715, AI202745, AI445483, AI433348, AI478813, AI146981, AII51439, AII84769, AI658554, AI521058, AI537563, AI301471, and AI634487.
HMUBP81	891	876452	1 - 1153	15 - 1167	BF792515, BF445026, AI492422, AI357898, AW296940, AA931635, AW296456, AI038836, AI265919, D59291, AA694009, AA700680, H06163, H66881, R23681, T86478, T86479, H81425, AI016343, Z38898, T16577, Z42746, Z42275, T89377, and AK000307.
HFIUG54	892	876475	1 - 1211	15 - 1225	AL519552, AL519553, BE744651, AW955259, BG030474, AI279547, BE383900, BF111612, BF979231, BF027435, BF031170, BF979063, BF691346, BF573580, AI083565, BE783877, BE727892, BE349548, BF979017, AI804064, BE891596, AA252212, BF248350, AA306506, AI083894, AW183913, AI288218, BE894847, AA973053, AA252213, AI440455, N23315, AI300175, AW152434, AW978595, AI864289, BF570825, AI217669, BF570890, N23439, AA234876, AA235303, AW953536, T47445, AA765563, BF572079, BF572079, AA311785, AI147554, AA738131, AI560760, AA993026, BF989651, T90472, AA573442, AI279529, AA193637, AV740759, H11688, AI937674, T47444, AA740441, D81882, H96821, T83136, BE539485, AI219090, AA573498, AA371301, BE002346, AA809694, BE170078, AA193600, AA766413, AA258658, AA258659, C01339, AF151073, and AL008729. AL528159, AU123436, BF793862, BE618611, BF573401, AA604375, AV751714, BF572188, AI096476, AI627324, AI623783, AW270881, AW176260, AU152251, AW466935, AA420479, AW959869, BE892089, BF352071, AV681959, AW953936, AW515636, AU156697, AW263721, AI433858, AI888162, BF374086, AW001768, AU157910, AW190261, AW300137, AW166776, AI017162, AI034411, AW169112, AW968788, AU158294, AI493585, BF725757, AU156571, AA035308, AI400980, AW606031, BE150485, AI269743, BE150560, AI086151, BF676866, N20484, BE150564, BF215664, BE706449, AA905363, AI244728, AW148617, AA126992, AW370989, AA490959, AW606012, AW339199, N34406, AW606011, AW391594, AA480346, BF893158, AA970535, AA548169, N24599, C02570, AW380443, AA582926, H42703, AW105105, AA570014, AW026638, AA256814, AA364778, AW020880, Z41211,

HOBAE30	893	876533	1 - 1479	15 - 1493

Column "1 - 1479" list:

AV714253, AI536061, AA035307, AA420478, H24299, AA678544, AW391563, AW339527, BF572733, AA065097, AV727261, BE706410, AA613111, AI925770, AW391562, AA191512, D51223, D62210, AA847993, BE879669, AA652779, AI750126, AW838626, AW608197, N75648, AI436629, BE150450, N51447, BF246280, BF725758, AA743305, AX014004, AX013758, AL117597, and AK002171.

Column "15 - 1493" list:

AW976111, BF438417, BE326988, BF448233, AA947739, BF590341, BF110651, AI400455, BE467219, BF845914, BE549725, BF792090, AW615210, AI079804, AW270919, AI435830, AI452944, AW611916, AA747433, BF970338, AI570117, AW207124, AI580309, N95645, AI309204, BE891399, AI338445, AI272895, AI499408, AW079078, AI797006, AI917984, N98806, AA282725, H01411, H00875, AI565322, AI240334, H01410, R74104, AA831514, R61345, AW150637, BG116831, AA301342, N69359, BF924928, R74103, AI672118, H00874, BE866477, H78279, AA514041, T49557, AW576423, H79404, AI739220, R31153, AI864092, BF087200, AA344229, AA693339, T49556, R31104, BG059394, BF378961, AA085178, N83511, BG223358, AL513763, AI373773, AL513817, AL513907, BE885131, AL513597, BF673068, BF795712, BG257535, BG110768, AL514129, BF726322, AL513631, BF724691, AL514087, AI349772, BE047852, BG058208, AL513977, AL515047, AL513871, AL514627, BE048071, AL515413, AW104724, AL119748, AW071349, AL513553, BE018334, BG031815, BF037097, AL513991, BG260037, AL121365, AL514473, AI633419, AV755581, AV682772, AL514155, AI537677, AL514935, AL514803, AL514791, AI475371, AL514919, BG164371, AL514983, AL119049, AI536638, AV682809, AL040243, AW198090, BG179993, BF812933, AL515041, BG110517, AW087445, BF726297, AL513911, AL513803, BF725644, AL121270, AL045500, AV681586, AI433976, AI871697, AI433157, BG252929, AI536685, AL513999, BG109270, BE876038, BG180996, AI609331, AV681630, BF727092, AI612913, AV682252, AI568855, AL513693, AV758110, AL514075, AV757158, AV762619, AL514325, AL514879, BG180034, AI269205, AI682743, BE904902, BG036846, BF794994, BE048131, AI682106, AI866457, AV756560, AL514511, BE785905, AL514303, AL121328, AI815855, BF970162, BF971016, BF970449, BF792469, AI538716, BE048081, BE963035, BE895585, BF341801, AV706777, BF981774, AV681951, BG108147, BE048065, AL514359, BF344691, BE877769, AL514063, BF725868, AL036802, AL515373, AI580927, BE874133, AI440239, AL513807, AI436456, AI590415, BE887488, AL047763, AV682441, AI499463, AI207510, BF527014, AV652906, BF969494, AI275175, AW673679, BE048026, AL513837, AV681949, AI064830, BE048319, BF970658, AV655645, BE048135, BF107577, AV735353, AL045903, BG252914, AV757455, AI687728, AI802542, BF726001, AI500523, BF343172, BE613622, AI815383, BE048179, BG120816, AI621209,

HDABK73	894	876546	1 - 2777	15 - 2791	
					BF916588, AL119791, AV681638, AL515173, AL514819, AI539771, BF338723, BE876033, AI500659, BF812438, AI524671, BF968041, BG252040, BE047738, AL514691, BE047952, AL117613, AF147302, AF116602, AF090900, I48979, AF113694, AL080124, AL133640, AF130082, AF116646, I89947, AF116644, AF116639, Y11587, AX019230, AF116631, AF090934, AF130075, S78214, AX019229, AF113691, AF116691, AF130105, AL389978, AL133606, AF090903, AR079032, AF130104, AL117460, AL049938, AL442082, AB049758, L31396, AL122093, AF130059, L31397, AF104032, AF119875, AL442072, AF119899, AL133016, AL050138, AB048953, AK025958, AF078844, AL050146, U42766, AF106862, AL117457, S68736, AF090901, AF113019, AL050393, AL122050, AK025084, I89931, AL133075, AF017437, AL050149, AF113690, AF113677, AF118070, AK026045, AL157431, AF090943, AL137459, AF138861, AF113013, AL110196, AL359596, AF118064, AF116688, AK000618, AF218014, AL390167, AK000212, AX046603, AF113676, AC005522, AJ242859, AL050277, X84990, AF125949, AF090896, AB041801, AF119878, A93016, AL110221, AL080060, E03348, A08913, AK026741, AF017152, AF111847, AC024247, AL050108, A08916, AF113689, Y16645, AK025339, AL049452, AR059958, AK026865, AF116649, AL096744, AF130092, AL022147, AK027096, AL133557, AL137557, AL050116, AL137527, AL133565, AB047615, AL049314, AL359601, AL122123, AK026608, AL133080, AL049466, AK026744, AX006092, AB048964, AB019565, AK026855, AL162083, AL080137, E07361, AF158248, AL389982, AK025092, AL133093, AF111851, AL136979, AL162006, I48978, AF219137, AL122121, AL359618, AP001346, AK026452, AC007390, AL118511, AK000083, AF177401, AK026592, AJ000937, AK026408, AF125948, AF113699, AF091512, AK026647, Y11254, AF314091, AL117435, AK026533, AL359623, AF091084, AP001666, AL137283, AK000445, AC002464, AK025772, AL161628, AK026542, AC004883, AK026927, U62317, AL445220, AC007375, AL133258, X63574, AK000137, AL035587, AL133344, AF242189, AL359941, AL357153, AC004686, U91329, AF207829, AK026784, AF146568, AB048954, AL359620, AR011880, AK026583, AF119909, AL137550, X82434, AF097996, AL121916, AK025798, AK025573, AC008812, AL356747, AL353745, AC023796, AF079765, AF271350, AC007298, AL353940, AP001746, AB052191, AL121932, AB047819, AL133560, AL110280, AL117394, AK000652, AK027113, AF225424, AK026959, AL049430, AL110225, AJ012755, AB051158, AC004383, A65341, AK026353, AL078602, and Z98036. AU123703, AI744148, AI744113, AU130720, BE897357, BG105308, AU137281, BF308835, AI860811, AI889014, AI765413, BE546221, BE670583, AW237314, BG248530, AW952369, BE502734, BE503479, AI765401, BE540301, AL042645, BF212478, AW500417, BG249708, AW674190, AI867571, BE018153, AW293518,

HEMHA04	895	876674	1 - 1581	15 - 1595	AA534578, AI432178, AW169762, AA506984, BE389321, AA420605, AI142237, AA406169, AW591668, AW188054, AII147954, AA430324, AL040186, AII197943, AW502601, AI589634, AA569041, AI015938, AA433904, AA070872, AI188829, AII24780, AA421239, AII49224, AA420647, AI916160, W73655, AI076564, AI768356, BF592904, BE464156, AW772442, BE219974, AI638215, BG034042, AII25307, R51293, BE812953, W51790, AA172002, AA425349, AA565222, AA313542, AA825728, R35270, AW204507, BF306159, BG152825, AA100809, W28763, BF223048, AI222042, AI479185, W26572, W45413, W73608, R52192, AI160529, AW440819, AI422286, AI298011, AA171761, AA421279, R51403, H62930, R52097, R59309, BF880022, AA581790, W81419, BF844067, AI768849, W40121, AI708313, AW511347, AA373236, AW368276, BF844000, AA434583, AV747735, Z42217, BE702753, W81420, AI962360, AA325784, BF879714, R59310, AI271621, T25845, BF879715, T06069, F05246, BF880008, AA806028, Z38264, AA071023, AA815452, N54389, BE929180, BE929187, BE929175, BF092052, AA810542, AA383377, AI370602, R50941, T87272, BF149192, T87186, AW867815, F01748, AA947741, BF749400, AA773493, AA890049, AW591526, AI985779, AA984284, BF923416, AW272799, AL043147, AB007891, AC009079, AL157384, AK025058, and AK026926. AW157077, AI928788, AI862521, BE618950, AII84766, BG115816, AI433323, BF970510, BG260737, AA479321, BE889129, AI332433, AA994577, AA478584, BF850029, AI366766, AI150895, AI620720, AA195559, AA442936, AI161291, AV760706, AW136295, AA904756, BE927251, AI364038, AI092864, AA425717, AW953803, AW205501, N79594, BF215829, T99528, AA446215, AI240414, AA446214, BE299441, AA232850, AW163046, AW937288, T93899, R66416, AI929048, BE619559, AW051014, BF212048, AV646038, AA364284, N36458, W01957, T93950, N43863, AA194718, BG117862, AI338823, AW139188, R52842, AW080850, AI284236, AA378547, T85659, R10338, AA037196, AV645908, R10339, AW055147, AW836503, AA436307, R81902, R05285, R00484, N42203, BG113905, AW836504, BE963784, AW818663, R00583, T99422, AA247115, BF914358, Z43562, H87028, AA812230, AI375631, R05342, BF847815, AW937285, AI693570, W24653, AW188154, R31139, W24879, AW665039, AII84747, BF893408, AI221366, AI671211, BE552302, AI097097, AU132176, AA455374, W19042, AL048808, AI742539, AW196756, AI685147, AW976608, AW975618, AA975508, AI820069, D80164, C15076, D59467, AW966053, AV718530, D59787, AV701004, AV718692, C14389, AW959628, AV699550, AV718489, AV724520, AV718707, C14331, N33473, AV719822, AW973541, AW975621, AV720150, AW959202, AW978634, AW973307, D80188, D58283, AW966531, AW966059, AV699866, AW949630, AV720878, D80043, AW960465, AI557751, AW973330, F13647, D59619, AV719557, AA975540, AW949642, D80210, D51423,

HHEOX44	896	876676	1 - 2776	15 - 2790	D80240, D51799, AV719783, D80253, AW973474, AW959136, AW966065, C14429, D80195, AV719324, AW949645, AW966075, AV720464, AW966029, AV723927, AV720211, AA305409, D81030, AW959799, D80219, AV720731, AV699447, D80391, D81026, T03269, AV738340, AV722801, AW959570, D80166, AW949656, AV720203, D59859, AW973485, AV719188, D80227, AW975605, AW966062, AW978648, AV718931, D80196, AV718938, AV718633, AW978661, AW960553, AW973334, AV718800, AW966534, D80022, AW975613, AV720533, AV718844, AV718770, AW949629, D59927, AW958993, D50995, D80024, D80212, AW966022, AW973488, D59610, AW960473, AW966013, AV720812, D57483, AW958992, AW966041, AW949643, AV699927, D80193, AV721386, D80038, AW959597, AW965177, AW965163, D59275, AV720791, AW966054, AW964756, AW966050, AV718440, AV720028, D59502, AW956397, AW962082, AK000587, AC005962, AC004757, AX047063, AX033851, A84916, A62298, AR018138, A62300, Z93928, AX047064, AJ302649, AR070327, AL136991, AC018769, AJ132110, AX027925, AX047062, Y17188, AX021518, AF058696, A25909, AR008278, X82626, D26022, and AX035434. BG032216, ALS26823, BE731068, AW961210, BG257927, AA088410, BG180328, AV703883, BE263038, BF981005, BG030126, AI921848, AL526855, AW612637, BE675369, AW590657, AA582953, AA129715, AW575752, AI768979, AW939345, BF795563, AA173576, AW006315, AW340019, AW593024, AA314374, AW294592, AI209090, AII46814, AW594006, AW408727, AW440271, AA442625, AI288689, BE242597, AA128304, AA917038, BF593212, N25149, H98630, BF447944, BE264878, AA447246, BF665325, AI214454, AI569471, AW188361, H23504, AW300860, AW440477, AI751632, AI751631, AI365108, AI288748, H23498, AW378551, AA305779, AI305805, AI246276, H15235, H05915, AW195659, AA233459, AL040280, H15174, AA580098, AA516088, AA807059, AI264064, AI374653, AA085808, BF764331, AA233499, AA442611, AA972665, AA173535, AA947515, BF761254, Z46082, AA436867, BE246825, AI216423, BF761247, AI680306, AA088533, AW961206, AA436854, BE879400, AA875987, AI537153, BE276849, AA883723, Z28659, Z24939, AA705973, BE242254, AA463884, Z40741, H79172, AA344697, BF764286, T34973, AA455337, AI636887, R45153, BE387790, R99373, AA476365, BF445431, AA332996, AA094260, BE242311, AA344742, T59749, BF445722, AI216025, BF090268, BF090263, AI564986, BE246900, AI657181, AI432566, AA476316, AI571662, BE173129, AA380487, BF764293, BF965160, BE173256, AA313261, AA128317, AI636873, AA133237, R48388, AW996483, BE242126, BF434676, AA447126, BE745358, AI675617, AW293675, AA300475, AW009004, AA095712, AA318049, AA587120, AL047883, BE790023, AA586931, AA603595, AA182886, AW082044, AII47306, AW081110, AI225246, AV759970, BF128843, BE251057, BF529088, AV716173,

HWBBS84	897	876726	1 - 984	15 - 998	BE536263, BF529870, BG255834, BG031532, AV704882, and AK000294.
HWLJP86	898	876744	1 - 932	15 - 946	BE566554, BF326749, AA775676, AA306997, BE080192, AW299505, AA295175, BE841230, BE080255, AW869573, AI660377, BF336432, AI698467, and AI925518.
HSBAZ37	899	876799	1 - 1222	15 - 1236	AW024392, AF121164, AA863031, AW970190, AA639871, AA954258, AA877523, AW961147, AA741216, AI289873, AA515094, AA568880, AW272162, AA315933, AA314510, AW772645, AW135907, AV692499, AA887896, AA954266, BF229450, and AA577173. BE748750, AA195936, BE735826, BF794633, BE737548, BF793582, AI671142, BE872825, BG179979, BE378971, AW130003, BF030023, AW956203, BG165402, BE738538, BF692038, AI735466, BE894558, N73033, AI246516, AI590122, BE748450, AA782140, AW960365, BF679774, BE545903, BE501713, AI193251, AA313983, AA976229, AW771278, W17013, T59048, H04600, T59124, AW444639, H83008, T71419, BG168341, T71283, AV685078, H01077, AA531461, T59197, AA375752, R33127, T59159, T57392, H01078, H82791, T98388, H04624, AI934040, R33279, AW769736, BF246599, N53668, AW973069, T98387, BE789312, BG178312, AW630373, AI919560, AA325169, T51465, AA206548, AA420454, T57330, T81203, T80799, W76322, AI499522, AW962053, AV707405, and AK024673.
HOSXA83	900	877015	1 - 1030	15 - 1044	BF984517, BF438004, AA100220, AI167817, AA113216, AA324768, AA085997, AA149087, AI493421, AA629345, AA625949, AA149086, AA669959, AA431870, BG170371, AI866312, Z28464, BF003072, AW517053, AA172371, AW173386, AI183937, AA431871, AA262957, AL036908, AI271960, AA085643, AK026086, AK000512, AK000171, AF172080, AF172081, AF172076, and AF172078.
HDQHQ51	901	877101	1 - 2712	15 - 2726	BF981980, BG024051, BF346373, AW405179, AU133938, AW846417, BF130381, AA278430, AI951459, AW130135, AA437355, AA427621, AW183077, AW044380, AI038334, AW503623, AI540554, AI224500, AA256905, AW663887, AW440059, AA702920, AI269240, AA662464, AW504999, AW572609, AA129087, AI042498, AW401902, AI865421, AA129086, AI023674, AA670374, U51141, AI355031, AA255481, AA600233, AA983314, AA661749, BF332122, AA278961, AI286001, AW504015, AW237708, AA512902, AW581119, R16374, BE645601, AW973049, AI000189, AA872607, Z39825, AW338997, AK001798, and AK025839.
HWAAB4 6	902	877162	1 - 997	15 - 1011	BE870589, AV721943, BF310004, BF691496, BF035913, AV655998, BF983349, BG028544, BF977672, BE790080, BE893063, AA001247, AA461156, AW966472, W52509, AA278796, AA113971, BF211184, BF949224, AA450388, BF820186, AV661562, AV721798, R98597, AA384473, T71383, AA358118, AA092585, H97072, AW975644, AV707101, AA092587, AA730518, AA018673, AA113979, AA278188, AA228876, BG260290, AI700934, N43893, AW609406, AI655403, H81967, AA056671, BE048541, AI310227, AI284242, N35130, AI653805, AA339064, AW024417, AI347399,

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HOGDT09	903	877219	1 - 2576	15 - 2590	AU143178, BF795088, AU125514, BG031811, BF984900, BE783087, BF701048, BF680437, BF701569, BE871703, AU149157, BE883082, AII14799, BG025813, AW972781, BE219039, AA523704, BE326829, AI738666, AI332905, AA630465, AI808902, AI379226, AA936962, AW237413, BF239826, AI225060, N30395, AA481027, AW001041, AW972782, BE502266, AA587330, AII51240, BE084123, AA812688, AA195542, AI379148, AI004264, AW300639, AU126982, AA180289, AI811274, AI261772, AW025729, AI418599, AW002896, AA878931, AW025796, AI886468, AI241082, AI913473, AA525768, AA194942, AA938582, R69549, AI336385, AI472706, BF034577, BG151642, BG029944, AI979336, AI968066, AA282317, AW903388, BF826476, AI287668, AU160310, AA876827, AI699562, AA742997, AI754786, AI380256, AW085594, AI283450, AI597993, AL044439, AA180129, BF351822, BE768130, AI474872, AA282183, BF684258, AW998737, AA628042, AA627935, BE927874, AI916288, BE832366, AI362939, AW993237, AK001360, AK024031, AK022683, AL034430, AF132198, AX048071, and AC005183.
HTEGT79	904	877252	1 - 1851	15 - 1865	BE905127, BE546512, BG252294, BF527887, BG163935, AV706708, BG180654, BF790471, BF696520, BE737669, BF680252, BF681302, AW993264, BF222935, AW197426, BF666480, BF895063, AW607640, BE179457, BE568557, AW239197, BF576909, BF570531, BG171402, BF028168, N98902, BF240887, BE169103, L44427, BF570521, BF971450, BF894515, AA504728, AV734932, BF085007, BE464055, BF894507, R69655, AI673707, BF681475, BF514310, BF240911, R61016, AI909052, AA258746, AA041233, AW662950, BG111481, AA337216, AI823758, BG113968, BF059447, N79717, BF809685, H09430, W32103, BF811811, AW594114, AA432395, AI673708, AW071057, AI339473, BE674424, AI080052, AW970905, AI352433, AW073288, AW628366, BE350307, Z42694, AA507164, AA933822, BF222059, BEI72885, AI347371, BE910283, AW842378, AW904671, AW083740, AI077969, AI287970, AI424748, AW799692, W31679, AA040796, AI084691, BF084968, BF084951, AW607551, N69911, AW971399, AA516035, AA258401, AA504631, AA758823, AI280486, R69571, AC009318, AF183410, and AF216751.
HOEJS41	905	877267	1 - 1720	15 - 1734	AI762874, BG181061, BG029934, AI674791, BE741765, BF666745, BE904311, AW954849, BE219311, AW954043, AW205759, AI276484, AI422894, BE465197, AA976248, AW009017, AI400084, AW341397, AI127180, BF447671, BG251035, BF196141, AI671157, BF475963, BE326318, BE218835, AW137128, AI039711, AI278183, AA455318, AI082634, AI536624, AII84021, AI912127, AW014838, AA884620, AI814108, AA992557, AA242741, AI420403, AA423822, AA976249,

HBXDI92	906	877294	1 - 1369	15 - 1383	H87044, AI871050, AA910054, AW341215, AA293585, AA960906, AA314432, AI215906, AA421611, AA291568, AI244330, AA884250, R88283, AW296512, AA928066, F37886, AA419081, AI522232, BE833848, AA659558, R77308, BF939420, H14133, H14077, BE833850, R86712, BF932337, AW802175, AA887721, BE833789, AA767469, AI468647, R86713, H45831, BF594455, H87708, AI474163, BF927687, AW247977, AW138723, AA382709, BF570928, AI572188, AA242762, AA406276, AI968554, BF800745, BF987769, BF742929, AI611453, AW249727, AI361199, AA923711, C00900, AW393192, AW393206, AA913682, AW945168, AF155330, AK000830, AF223950, and AF223951.
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HHFMH12	907	877387	1 - 3864	15 - 3878	AU123654, BE614945, BF570217, BF570247, BE872390, AL525283, BF038800, BF343512, AW993641, BE622339, BE868734, AW965680, BF309693, AI096627, BE313918, AI750041, BF114871, BF569241, AI589918, BF308936, BF333907, BF569278, BF737162, BE168022, AI971206, AI567485, AI870013, AI492558, AW082735, AW071873, BF527054, AW068564, BE297137, BF732915, BF966881, AI494149, AI431911, AA158252, BE908970, BE259923, AI422826, BE858725, AI493768, AI363488, AI460100, AW104306, AA100840, AI755276, AA476207, AI992015, AW026405, BF818539, AI190217, BF195183, BG008965, AI738539, AI439206, BE392668, AA037160, AI361483, AA877117, AA425180, BF030331, AI372673, D80801, AA678831, BF344054, AI376927, AA160849, AW840238, BF738632, BF194781, BG149546, AI038534, AW951928, N77542, AI418906, AI359937, BF770908,

HDPFP36	908	877396	1 - 4025	15 - 4039	
			AI084962, AI356122, W88956, AI499098, AA325211, N94717, AA043409, AA789304, AA355373, AI372674, H63354, AA313505, AA351821, BE168407, AA349465, N62261, BF516245, BF920103, BE139062, D80800, AI937868, AA102488, AW150270, AA349466, BE788878, BG015537, AW339965, AA330631, AA158399, AW083453, AA156068, AA350488, AA161281, AW075493, AA654017, AI094530, AI205125, BE709570, BF769382, AI686221, H41345, W89039, AA548969, BF083151, BF511513, AW338483, BE146202, AI334361, AA102489, BF802694, BF873805, AI961671, AA351820, AI570099, AA367255, BF370280, AW88417, T98883, AI926390, AA631107, AA301787, BF088733, BF740307, BG014702, BE622800, AW770217, BE816204, BF478261, AA143489, T18598, BE707955, AA102418, AW471322, AW189862, AA027021, BE764540, BF927721, BF326162, AA376185, AA904590, D31580, AI590590, AW082999, BE834120, AW753882, BF372972, AA702382, BE003963, W88756, AL042199, AW134571, BF372969, AI198157, AW009324, AI811883, AW003196, D29325, D29337, AI702386, BE834158, AA043408, R45887, H50462, BG113080, AI858384, BF945110, AI624949, BE834185, BE296215, BF927956, AB037858, AK024649, AK001199, and AX011688.	AU134908, AV713940, BG254088, AW242873, AV655636, BG171383, BG107456, BE870660, BG121467, BE907884, BE882410, BF668229, AI638226, AV713772, BE504884, AU117218, AW014789, AI928114, AI478983, BF219146, BF590361, BG110092, AI075890, AW242842, AI675131, BF667382, AW014540, BE042921, AW372249, BE542118, AA630413, AI313145, AI653172, AA134046, N32561, AI752719, AI653034, AA489839, AA551242, AA480899, BE671745, AU144113, BE327275, BF111788, BF349616, BE328016, AU155713, N53472, BF061406, AI092888, AI479478, AA210774, W00846, AI761985, AI276657, AW151703, AI830594, AI589236, N41905, AI753040, AW590911, AI335745, AA489659, AI027334, W57952, W58099, AA846532, W58085, AI423910, AU149894, AI126500, W46149, W00854, AA923540, AA669903, W73619, AI620667, AA312838, AI041901, AA126268, AI357683, BF477473, W58035, W73667, AA232572, AW002525, W03762, N98674, H06349, AA700807, AA283647, AI752720, AI693833, AA064885, AV736659, AI093714, AI033028, AI167615, BE645395, AA902590, W46161, N23622, AA704812, AA126386, BF244472, AA910235, AV736277, AA480960, R40680, AI032472, N41728, AI675041, AI590268, R80530, AI344793, R80419, AA480245, AA991447, R86064, H06293, AI318610, BE569153, AA064808, AA810121, AA283646, H98584, N23621, AA811695, BF448760, H09433, AI241317, BG149922, AI470594, R40250, AA134045, AW181920, AA374575, H09084, T90456, AA569988, BG151498, H84159, H84160, AI700949, H89683, N66151, R14352, AA373949, R14299, AI538863, AA644291, N89241, BE537344, R91989, N68235, AA810813, BE242118, AI084359, N72476, AI547027, AA232625, H89759, AA564759,

HDPWZ46	909	877573	1 - 2910	15 - 2924	

AW382356, AW371061, R57492, AA249229, BG249740, BF843733, BE219308, BF844627, H97526, D50917, AC007365, and AB041541.

BF968719, BF970102, BF974759, BE870739, BF313383, BG177864, AW960084, AA502912, BE258859, BG248298, AI050870, AW006390, AV721883, AI953093, AW468272, BE251201, AI675899, AW502481, AI870318, BE536266, AI923553, AW401673, AA310795, AI440347, BE936524, AW027693, AW501912, AA524413, AW574552, AI075145, AI359954, AA524099, BF880552, AI597640, AI083744, AW970671, W72039, BE675707, AW662450, AA456551, AI688921, BE327587, AW167025, AI970597, AV750735, AI028774, AW468042, AW083366, AA702590, AW008239, AW188383, BE856306, AW150222, W04875, AA133158, AI075281, AI380071, AI696180, AI919128, AV746681, BE326354, AI458590, AI690287, AW341136, AI290772, AA394112, BE670623, AW770679, AI564066, AI802599, BE670339, BE327534, N50705, AI912716, AW770931, BE670125, AI290867, AA515127, AI697475, AI459065, AI218744, AI214605, BE674024, AI697999, AA632926, BE218968, AI630774, AI268530, D52783, AI692351, BF224244, AI373390, BE671556, BF477598, AI304923, AA420978, BG153398, AI342694, BE045635, BE074737, AI348602, AI760118, AW081261, N70505, AI342675, AI348362, AI302027, BE074644, AI218972, AI340052, AI702729, BE670635, AI342752, AA459322, AA923137, AI300921, AI818912, AW166144, AA971517, BE328050, AI458565, AW341160, AW512533, AI214348, AI348572, BE674503, AI867102, AI032703, BF932868, AI761002, BE840091, AA436286, AI369001, R82177, N55034, BF433728, AI807719, AI814038, AW407844, BF433382, AA504752, H62722, AW748135, AW470525, AW470337, BF433923, AA446015, AA909765, R82219, AI000287, AA652891, BF433226, BE703532, AA829731, F06324, AA770635, T33986, Z39227, AA478999, AI702141, W76432, BE551369, BE551444, BF914193, BF941470, AI268398, H91642, AA987310, AI191730, AI268346, BE502711, AA459103, BE328095, BE466981, BE703523, BE549954, AA808738, AA995397, H91643, BE550199, R11808, BE348420, AA931687, BF879805, AA996234, BE467190, D81323, AA988933, AI215821, AI216187, AA977023, AA577322, AA976720, AA916695, AA436160, AA504654, AA661852, AI197990, AA938371, R43824, AA973530, D53592, AI002429, AA321769, BF913969, AA279841, AA524872, AA885803, D80894, AA512952, AA789129, AA971520, AI860335, AA357086, AA477935, H62806, AA923086, AA292315, AA974038, AA618436, BE184342, BF364749, BF879774, AA931944, AA844341, AI300623, BE831022, BE831018, AA989091, BF154962, AL039259, AA939247, BF195360, AA470467, AA250870, R37724, BE184319, T35082, AW603140, AW059597, AI023554, AA347047, AA916526, BF591381, BF901997, BF340243, AA902263, BF448311, BF886674, AB020713, AL117527, Y00826, AA687290, AA937729, AA968738, AI002329, AI291215, AI299477,

HFPBS73	910	878090	1 - 1142	15 - 1156	AI350166, and AI299545.
HBBBE08	911	878159	1 - 1683	15 - 1697	AA027758, and AI526037. BE531175, BE615310, BF527071, BE531094, BE644965, AV648364, AA910364, N34695, AI809246, N41056, BF115228, AW964381, AA836750, AA455261, AA829730, AI742325, N27413, N53009, AI801368, AA938708, W67500, AA971739, AI420241, AI017351, BF222341, BG007409, R56380, BE348825, AI130039, AA465642, BF941301, R59120, AA771807, AA760722, AV683253, T33111, W67501, T30661, F21282, AI458383, AI694152, N47808, AI460007, BF749264, ZA2834, AA226536, Z41034, BF849940, BF447457, BF447426, AW515347, AA016246, BF826729, BF954814, T03874, BE467282, F02360, F02302, AW204638, BF964079, N59351, N34898, H43293, C04542, F07962, BF349035, H43292, AI678586, BF964036, R56280, AA527386, BF948152, AA807824, AA948556, AA322394, R59121, BF952316, BF446775, BE830583, BE830581, BF858895, AA324607, BF850822, BF944325, N77162, AA886280, BE830573, N46624, AL031846, and AF004231.
HNFIB64	912	878172	1 - 2376	15 - 2390	BE409562, BG030410, BF348149, BG248660, BE884381, BE515202, BG168824, BF312553, BE311468, BG030381, AV700543, BE311464, BE277436, BF982183, BG180015, BF206984, AW401587, BE386116, AI791733, BE389318, BE675753, AI186666, AW082290, AW261819, AI582235, AI923861, AI733423, BE858619, AW401585, AA034502, AW025899, AI923461, AA279106, BE676188, AI368066, AA601538, AI073451, AW275946, C17878, AW512757, AI697431, AA496076, AI635654, BG177627, AI085307, AA743237, AW614811, AW062388, AI744390, AI687704, AI952487, BF589052, AI359767, AA278843, AA622950, AI023202, BG253479, AI679355, AW176719, BF974978, AA643661, BF871023, AW516328, AI584072, AI598167, AW959457, BE350491, H07061, AI347420, AA921925, AI582931, AW403038, BF338508, AA918089, N52992, H13318, BE292831, AI085302, BE140882, H96929, AA807882, AA063318, AI961257, AI829853, H07062, AA054731, BF944503, AA836647, AW026990, BG056082, BF872896, AW292750, AI589406, R40014, AA759154, R13953, H43157, AW151146, AA583559, AI366516, R13644, AI271948, AW080130, AA074128, AA740815, AI580964, AW079491, AI914663, BE838739, Z42175, R52685, AA406075, AI857247, AV718896, AI914835, AI701788, BG036228, AW340889, AA835728, AI940138, BE713052, AV719551, AI002358, AI784030, BE140898, AA054738, AI083786, BG252369, BF881534, AA908445, AA012879, Z38432, BE140828, BE719133, BF183164, AA526048, AA863181, AA464554, AA806696, BE269145, AA323070, BE396584, AI687300, BE906034, C21388, AK024450, and Z92544.
HBIMN78	913	878206	1 - 1396	15 - 1410	BE869983, BF308753, BF725174, BF304856, BF894731, BE242128, BE819466, U46430,

					AW062938, BE388539, BF914375, BF990518, AW583832, AA323188, BE938233, AI632409, AA311532, AW450875, BF915643, BF341662, AB014568, AL021707, AF202723, AC002429, AL353812, AL121586, AC008651, AC007057, AL049872, AL034423, AL022328, AL109804, AL022238, AC027319, AC004032, AL049709, AL135924, AC005740, AC023600, Z98946, AC005257, AL031255, U07563, AL035404, AL139286, Z81364, U71148, AL022318, AC003663, AC009086, AC016940, AC005318, AC011510, AC005730, AC010329, AC004099, AC006064, and AC008044.
HHEKH05	914	878208	1 - 1599	15 - 1613	AL537127, AL529755, AA675921, AA675922, BE262438, AL522335, AL528593, BE892770, AL529754, BE789156, AW968234, AI538989, AW968236, BE735854, BG115842, BE734728, AL528594, BE677149, AI075918, AA256650, AA493371, AI094322, BE048443, AI688521, AI935462, AI802901, AI688358, AI767408, AA024843, BF912784, R52790, AI421046, AW020287, AW022859, AW022729, AW302197, AA083625, BF438369, BF914185, AI336330, BE792441, BG178467, W38780, AW250197, AW848654, AL525060, AI263242, AA456473, AL525059, AW845328, T6281, BE899479, AA527428, BE870520, AA478734, AL530537, W25302, H81794, BE168899, F09704, AW022849, BG112394, AL514699, AI919046, BF339743, AI889514, T06003, BE905535, R95684, AW962261, AL534280, AW268970, AI611368, BG180414, BF665591, AW026514, AL522334, AI816825, AI766194, AA768239, AA319841, AA364692, AI889524, AI394075, AA464368, AA464386, BF594747, AA421113, AA306297, AA436809, AI271327, AI921322, AA464386, AA417376, BE171169, BF346180, AB019038, AC007011, BF836166, R13267, AI689262, AA417376, BE171169, BF346180, AB019038, AC007011, AC000378, AK001523, Z66003, AF217970, AL390183, Z61829, and AK026807.
HHAUW8 1	915	878215	1 - 1177	15 - 1191	AL530731, AL514224, AL529528, AL521100, AL528971, AL529527, BF972219, BE794951, BF346866, BF309641, BE729587, BF026792, BF568619, BF308650, BF026452, BE890995, BG110825, BE897940, BF683364, BE869863, BE736872, BF025798, BE560224, BF033881, BG165864, BE560741, BG033515, BE728889, BE543512, AL521099, BF026523, BE892910, BG027620, BE299033, BE408599, BE269141, AW796193, BE390234, BE276926, BF378458, BE264350, AL528970, BG031359, BE389596, BG105312, BE622000, BE896609, BE743319, BE910603, BE302514, BE264276, BE274491, BE743340, BF307179, AW963268, BF802557, AA452059, AL515227, BF568780, AL515228, AL514223, BG259896, W52611, AA291230, AW406604, BF339396, AW082239, BE868401, BF851552, R25280, H45835, AW196278, H67409, Z43714, R61777, H40960, BE877482, AA297937, BE622652, AI394287, BE146053, T32291, AW003201, AI654179, AI952990, AI825852, BG150149, H39059, AA298337, Z42953, BE967094, BE384286, AI224107, AI738533, BF365211, AI871094, AI183911, AI379594, AW149713, AI631747, AI697568, AI944918, AI376007, AA679218, AI288463, AA934029, AI494419, AI271450, AA371825, AA505600,

				AA604759, AII26044, BG013260, AI982796, C03101, AI922055, AA809294, AI769969, AW954337, AI888073, AI573232, BE410228, AI278200, H45804, AI672728, AI424355, AW301292, AW172683, AI097331, AW594391, AA905734, AI660779, H40917, AA929008, Z39771, AI372977, AI468663, AI560425, AF007771, AI695083, AI670035, AI399773, AA284151, AI280353, BF685242, and R61778.
HAUBB12	916	1 - 1273	15 - 1287	AL537234, AL537475, BF981545, AA581417, AI458845, BF982567, BG059931, AI828210, AU158891, AW445062, AW129177, AI969798, AI914020, AW117858, AW591275, BF515900, AI636420, BF431589, AA161371, AW083752, AW298307, AA244396, AI434202, AI446299, AI933838, AA244411, AA908297, AA747041, AL118899, BE327711, AI627327, AI738930, BF738507, AK025023, and AB006622.
HFPHS77	917	1 - 758	15 - 772	AA829828, AW978886, AA724548, BE142180, AC002528, AK025532, and AK024866.
HBGQN46	918	1 - 888	15 - 902	AA479990, AW293680, AI473367, AI184880, AI086741, AI081183, AI214276, AA742259, AA836754, R55060, AA251267, BF059531, AI285889, BF434159, AI813391, AW297831, AI819671, and AF038458.
HTAFG29	919	1 - 1880	15 - 1894	BE794380, BE910104, BE793820, BE391720, BE153727, BE795052, BF430981, AI765782, BE791580, BE786309, AU130325, BF589402, AI631686, AI949441, AI885866, BF084385, AI963923, BF222715, AL118757, AW207902, AI307350, BF084395, AW189044, BE561650, AW025807, AI147100, BF802111, BE269577, BE267785, BE561193, AU150167, BE560154, AA516417, BF336453, AW971995, BF084384, BF941783, AA933663, AI206206, BF934914, F35646, BF352106, AA115092, BF089978, AI963973, AV703842, BF350587, BF510458, F28989, AI949861, AI766835, BE153458, BE746018, BE544995, AW238961, AA147718, BG029397, AB040886, AK023077, AK022840, and AL359624.
HDPCT51	920	1 - 2078	15 - 2092	AI307240, AI816064, BE795087, BF529860, AI951554, BG054939, AI942492, AA641031, BF316781, BE263991, BE260960, AI687077, AII24930, AI423498, AA894728, AA614585, BF727209, AA777759, BF341298, AI335011, AW302233, AW188628, AI051728, AI418558, AA293436, AW071822, AI815981, AW969529, AI076557, AI311022, BF002146, AW451505, BE645020, AI377461, BF434923, T66288, AA311733, N26393, BF508157, Z43604, AL532059, BE702964, AI761351, AA329668, H64102, BF229785, N40667, AW571491, AI364142, F07345, Z43611, Z39666, T35364, R78689, BF092002, H12368, F12145, T66341, AI240745, F02935, H62593, H12315, AL532060, AA831948, BF364263, T35366, H64151, AI627686, AA293045, AI761531, AA503793, T29948, F03591, F09782, BG236443, AI909783, AW751045, AW328429, BF094196, H21480, AA160594, AW328430, C01582, BE696174, BE832407, AI015205, AW020592, AW950223, AW020397, AW022571, AW952457, AW961037, AW965144, AV651436, AV725055, AV729439, AV708653, AW951273, AV703042, AV727839, AV684417, AV708075, AV693527, AV650024, AV726605, AV707727, AV707889,

HMACZ08	921	878313	1 - 2730	15 - 2744	AV727980, AV704934, AV705323, AW961463, AW019988, AW022981, AV721957, AV696257, AV706987, AV703263, AV706775, AW020328, AW954384, AW023863, AI557808, AW952414, AW021178, AW961253, AW020425, AW963028, AW950220, AW022826, AW963490, AW958647, AV654896, AW953930, AV728592, AV645906, AV685966, AV709869, AV683415, AW022299, AV686346, AV690007, AW953657, AV728806, AW954031, AV727512, AW952439, AV727990, AW950247, AV698087, AV705938, AV702932, AV702026, AV705341, AV652443, AV707024, AV729259, AV701620, AV707296, AV704824, AV707767, AV706915, AV704182, AV697638, AV729462, AV703472, AV726229, AW023351, AW950438, AV688667, AW963915, AV655425, AW020406, AW949433, AW966420, AV727776, AW950035, AW950267, AV706744, AV702994, AW021182, AW020480, AW965840, AW023955, AW020876, AW023617, AW021059, AK026102, AJ293970, AF287269, AF249319, AJ293659, AF287270, AC009003, AF218031, and AF160502. BE876197, AU133975, AW170131, AV723948, BG178057, AV652458, AW836234, AW608052, AA047046, BF104746, AA486037, BE395776, AW385580, AA488655, BE699041, AA932253, BG104619, BF671350, AA854943, AA418105, AA829456, AA243385, BE699051, BE936060, AI346694, AA418007, AA503398, BE793798, AA053835, AW067836, AA878478, AI309218, BF820483, AA287990, W37960, AI401102, AI279485, W37900, AI050735, AI423510, AA610711, BF939011, BE699047, AA701403, W30974, AA017371, AW385388, AA911160, BF928600, H10281, W32542, AA133579, AV721259, H81907, BE908122, H11712, AA657490, H09562, BF529092, R97956, BF810354, N68428, BF841567, AA018681, BF810349, AW838671, AW274397, BE699044, BF737894, H17436, AA133578, T03483, R93915, BE699011, T84200, H10225, R97955, N91220, F09018, BE244933, BE697384, AW474873, Z43397, AA677745, F11358, AW838680, Z42508, H08994, H11779, R18755, H86384, AW067888, R20010, R44826, T78746, BE546845, BF768165, AA676360, Z41104, AA191764, R12303, R61069, H80952, H01770, BF362799, AA857228, BE746764, BE092626, AW361033, BE246721, R12953, F11514, AA298600, AA233314, H82000, Z45386, AA047038, AA988879, AA776420, BF925722, R61792, F02025, BE074538, H37922, AA946813, AA058662, AA298811, AW954042, AI024907, AA515707, AA579408, BE744331, H38137, C02381, H80857, AA190438, AA059270, AW953912, W32541, AI253018, BF755527, AA252608, H39230, BF087406, BF841077, BE699066, F09175, AW608049, R36072, AW607934, AW242636, F02790, AA018740, BE092426, N47523, AW951415, BE872758, AA670010, BE080981, BF793691, H86054, AA655031, BE699208, AA017201, AA059226, BE562873, BE857637, BG011131, AA233315, AW169463, BE935974, AA910836, BF756516, AA504287, AA489248, AW452612, BE858890, BE699076, AA953019, BF930488, AA552521, BF932022, AW385586,

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HPHAB61	926	878406	1 - 839	15 - 853	BF354490, BF354491, W52563, BE274472, AL538054, Z43693, H09192, AA706920, AA371469, BF032961, R34999, BF082755, BF332778, BF082768, BF082759, BF082766, N57281, BF328302, AV724003, BE181224, BE009565, BF332781, BE830920, AA495939, BE830918, H26811, BF701671, and AB050514.
HTJNI73	927	878407	1 - 1148	15 - 1162	AU143281, AV696409, BF340564, AV661143, AV654284, BF105002, BE770204, BF724794, AA426242, AW265010, AV721277, R97293, BF756268, R54039, AV754053, N24257, AV647091, N42528, AI401202, N24207, W28694, AA317731, AV685670, AW965211, AA337330, R62707, N39820, N23591, H81447, R77868, AW466958, R18686, AA336076, AV722584, N35781, AV724479, AV723766, H51816, N91698, AA319346, AA299521, AA345861, F07903, AV655429, N32363, AI467853, AW273835, T86246, BF108990, H98580, AA329228, AV748360, AV750416, AI983083, R31616, BE301237, AA177091, T90151, BE931882, N57032, AW517301, AV682839, BE855731, AA745840, AA024532, H52309, AW351743, H52305, N29881, N30166, AU160395, BF935400, BE858560, AW132152, AA733046, AA865789, F04158, AI262355, AA740352, AI351711, AW371798, N52171, AW150974, AI217969, AA516285, AI285144, AI354657, AI620642, AI285129, AA425779, H99932, AI039767, AI077400, H97520, N26668, N23592, H99910, N23381, N35253, N29339, N24055, AW304128, H99567, AW512309, R54040, AW750748, AA775354, AI719093, AI672961, N68683, R63667, N59618, AA025292, AW371790, AA635661, H52541, H52545, R77774, H51817, BF529644, AW614704, BE069946, AI273018, AI474970, R32347, BE884988, T90050, T86141, N78171, T23591, BF935140, N32980, AA705215, R97054, N51909, AK024041, AF160216, AX013086, and AF077049.

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HEOMO40	929	878455	1 - 1019	15 - 1033	BE792998, BE784640, BF791671, BE392026, BG178228, BE384422, BG112478, BF034379, AA280075, AI341850, AI685471, BE889886, AI971214, AW026541, AA625134, AI434060, AW780065, AA635928, AW072332, AI201571, AI018504, AI189383, AW150715, AA514603, AI222786, BF475582, BG058642, AA829969, AA465296, AW887710, H53940, AI971391, BE178584, AI126522, AI151505, AA527473, AI289125, AA430474, AI139537, AW804020, AA973593, AI422423, AW887689, W81548, R09558, T87884, AA653072, AA479457, F31659, AI282731, N90216, AI859244, AA588856, AA311454, AI085132, AA128540, AI927397, H53939, T87974, AA194261, AA429427, AA424897, AA479349, AA627660, AW079647, W81547, BE645736, BF755467, AA371654, BF761445, T84384, BE715848, F36489, BE715855, AW804116, AA873449, AI934286, Z40834, BE004605, F04088, BE242795, AA193307, AA862408, BF803049, BF764149, BF852661, BF954607, AA345903, BG033329, W38944, AII26392, Z45204, F07750, AA186373, BE715864, and N95246.
HBGQR89	930	878462	1 - 580	15 - 594	AA551087, AI526029, and N69786.
HSLHS40	931	878483	1 - 689	15 - 703	AW954841, BE566427, BF038744, AV714591, BF207443, AV717828, BF697755, BF701163, BG252752, AV696876, BF573438, BF696963, BF701614, BE866549, AA307912, BF697866, BF246764, BE080190, BF132505, BF541626, AV711935, BF210092, BE866389, BE566332, BF967412, BF030766, N33481, BE568990, BF687775, AW965380, BF185923, BF185757, BF967635, AV657676, H01141, BF699604, AA378770, N33874, AA853183, BE172695, R27699, BE785883, BF130673, AV762989, AA333757, AA255698, BF029394, AA313926, W25450, AA262083, BE080783, AA622346, AF068292, AF151899, AC006559, and AL136571.
HDPFT14	932	878510	1 - 2650	15 - 2664	AL523199, AU132797, AL523200, BG033844, AW752704, BF791612, AU134767, BE882970, BG023837, AW850681, AV716901, BG250459, AW242503, AW364612,

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HNHFY67	933	1 - 2533	15 - 2547	878569	AA312450, D62428, T52084, AA312073, AA176195, AA176152, T03105, D62423, AA779034, T60233, and AA314825.
HWLLR80	934	1 - 1084	15 - 1098	878628	BG026214, AW962291, AI459549, AA455567, AA398062, AL449621, AI394051, BF108431, AA515452, AW044341, AW88291, AA456064, AV683744, BE546175, AU145029, AI699125, AA143102, BF361999, AU118479, BE833021, BF967276, BF967822, AA310438, T09094, BE088709, BF869437, AK021645, and AL139349.
HLYAG35	935	1 - 1123	15 - 1137	878700	BE379775, BE872144, BF792610, BE543890, BE895184, BF673057, BG256338, BE891847, BE743821, BE790582, BE867918, BG117915, BF969301, BG029557, BF970720, BF686005, BE622404, BE379843, BF037225, BE548179, BE617191, BE789663, BF311190, BF792222, BE293097, BG117792, BG116922, BF573664, BG179311, AV728537, BF697248, BE868922, BF681296, BG258783, BF216726, BF971778, BG104884, BF244945, BF541844, BG165973, BG256248, BF027966, BF208413, BF033943, BG117616, N31859, BF028710, AI525654, BE256557, BF132742, AI720884, AA487754, BF668158, AW080623, AI042438, AW405567, AA315638, BF726757, AV733019, W26597, AA626503, AI347948, H40397, BF805359, AI148666, AI342990, W27939, AA844517, BF208701, BF028915, W48798, BG107500, W40144, BE720067, H53915, AA973504, AA938181, T78480, BF675363, AI291752, H86324, AA973502, T96718, AI096709, AA888982, W17062, BE566980, AA019151, AA136931, H54535, N28602, T84197, BG121953, T96898, T96608, T78565, AV761243, AA741234, AA135077, AW664475, AW956486, BF880803, BF873448, R02614, BE828057, AV656709, BF035943, AI382540, H01254, BF027956, AA377618, AW954988, BF742185, AA337594, AA196164, R63004, BF793637, AA337440, T88814, BF793769, BF744139, AA863426, AA284748, AA356413, AW292189, AA356139, BE535527, BE701198, AA629237, BE819084, BE718093, N55890, BE704027, BE831116, BE703907, BE718092, BE838794, BE718089, BE704012, AI541208, BE703992, BE703900, AA148976, BE703902, BE704015, BE704013, BE819085, AW574518,

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HTFNS65	937	878748	1 - 850	15 - 864	BE613222, BE621608, BE731676, BE612766, BE727717, BE274110, BE512791, AW610041, AW961089, AW610040, BE540424, AA421991, AI128794, AA643252, AI553836, AI337866, AW044675, BE350024, AA424905, BE396274, AI936250, BE391566, AII61281, AI092684, BE387551, BF314230, R75637, AA627914, AI080133, AA256915, AI150197, AA253106, BE621355, AI344548, AA765783, AI433180, AA833911, AI769283, BE314965, BE261902, AA258905, AA668580, AI271742, AA745047, AW071080, AA410797, AI095804, AII28782, AI269638, AI269057, H69062, H94996, BE391923, AI384009, AI423951, AA255491, AI419254, BE743099, AA626290, AA594812, BF432512, AA909289, BF207341, AI220675, AA339832, AI559934, R75740, BE253327, AII98666, AA258813, AA936964, AI751181, AA502345, AV701498, AW176256, AA336836, Z21045, BE837254, BE388676, Z38718, AW610034, AA374638, AA253051, AA323970, AL122010, and A75147.
HDABG90	938	878755	1 - 1689	15 - 1703	BF436797, BE614225, BF092492, AI201866, AI566970, BF509280, AW104472, AI656009, AW295965, AA758867, BF057078, AI219471, AI452536, AI743932, AW197851, AW135409, AI916057, AA398022, AI041112, AA928706, AI041252, BE502568, AW196570, BF222963, AI971262, AW894346, BF917434, AA913387, H86566, AI492117, AW894720, AW971983, AW090197, AW472972, AA574312, BE937627, AA662668, BF001949, BF436942, AV723803, AA927047, BF939436, BF934163, AI538251, AA732212, AW103239, AA975494, AA393984, AI688854, AA947763, AI612107, AV705323, AI567582, AL036705, AI345477, BE138624, AI670002, AA743430, AI568865, AI689096, AI224373, AI341690, AW089844, BF811802, AI499285, BF752997, BG111199, AI342023, AL134830, AI349640, BF911517, AI250070, AW303179, BF871314, AI701097, AI336581, AI335207, AI344789, AV681781, AI583670, N25033, AI336631, AW301513, AW301459, AW072719, AW806761, AW268221, BF032768, AW268302, AW301459, AI884318, BF724894, AI318159,

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HDPQO40	939	1 - 1737	878790	15 - 1751	AI680867, BF110179, AA973037, AA868809, AW291165, AW169977, AA459970, AV748254, AA235170, AA460062, AA235071, AA811821, AA234899, AW243583, BF740727, R50382, R47735, T19463, AA765007, and AA748788.
HKAHL37	940	1 - 1776	878823	15 - 1790	BF688501, BE881450, BE250966, AI523831, AA402161, BE392990, BF798735, BF448645, AI809311, U55991, BE387679, BG005830, AA058572, AW576097, AI080305, BF526976, AI809303, W58112, AI219592, AW771597, BF969738, AI870771, AA306397, BE395222, W72743, BG056680, AI914114, AI356543, AA970516, AA393477, N23943, AA470469, BE908638, AA259063, AI220513, AW016176, AW028724, W31498, AI572664, BE255290, AA041503, AI933312, AI032420, W77922, AW071229, BF344608, AA324492, AI073475, AA918880, AA211889, BF688973, T19169, W04578, BE618638, BE314602, AI079603, T34432, N80749, BF967557, T34444, BF967414, BG036741, AA324169, AW406751, AA454831, AA018438, BF967636, AW954531, R64311, AA336112, BF967482, BE740875, BE742276, AA383421, AA349561, AI763093, BF196321, BE671746, AI138838, AA863481, BF940724, AW262487, T85783, BF966747, BE552382, AI380715, R51375, AV689075, BF222015, BF945161, AW970290, AW970296, AW970375, AV692451, AI372710, AA861445, AW970376, AA401573, AA534640, H20475, N91047, AA534821, T61174, T65029, AI372712, AA402818, BF967827, T08467, AI150344, BG027910, BE618092, AV686818, N72499, and AK026031.
HBXAXI1	941	1 - 1384	878833	15 - 1398	BG171183, BE394832, BF345793, BF663932, BF663191, BE393442, BF129119, BG179361, BF341957, BE788377, BG119947, BE794162, BE619396, BF969290,

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HMVBC71	942	1 - 1323	15 - 1337	AL515525, BF966744, BF793066, BE905040, AV697070, AW157314, AI816071, AL515524, AW261874, BF966307, AW163370, BF727408, AW151173, AW001897, AW236835, AW235694, AI801254, AI815990, N62855, AW117364, AW976507, AW150293, AA876913, AI635914, AA779526, AI584106, R40658, D12158, AW148443, AA338451, AW166670, AI245076, D12218, AW369838, D57788, AW631476, AA969485, and AC010382.
HHFML06	943	1 - 1006	15 - 1020	BG037056, BE735622, BE613933, BF038899, BE788504, AL524340, BE273787, BE382875, BE391143, AL524339, BF978413, BF978052, AW965394, BE547588, BE048117, BG120035, AL535856, BF982434, BE178854, BG028203, AA504716, W27204, BE697396, BF087393, N41801, AL535855, AW603038, BF979829, AA034426, W27040, AA312370, AA406004, W28235, AA309632, AI906282, N32848, AV701475, BF090558, D60934, T30463, AI863431, T19063, T32338, AI971022, BE048604, AI937406, AV711602, W19696, T32187, BF905646, T30721, BE838731, AW151091, BE543336, AA658336, AI346867, AA399637, W90242, BF055176, W90243, AI811643, AI963120, BF827788, AI268013, H61501, AA053917, AW130080, AI038050, AI913778, BF247007, BE828382, AA330190, R16625, AA588282, AI469647, AW605910, AA642233, AA879123, BF819691, AA846647, BE549152, AI766372, AI631662, AA554675, AW473415, AA333952, AI085295, H92197, BE838722, BE181564, AV740503, T90188, AA709128, AA367963, W04861, BF513879, BF056039, D80978, AI650926, AI245252, AA779947, N70492, R16567, AA341326, AA180070, D60933, AA640652, N89051, AA504623, AI040870, AI469642, H98628, N89952, BE503958, BF940488, AI869508, AF161406, AF134159, AC007182, and AF270646.
HEEAG84	944	1 - 1658	15 - 1672	
HE8PT01	945	1 - 2276	15 - 2290	AA032264, BF033184, AI524813, AW470107, AI002961, AI016098, AI627696, AW293379, AA032198, AI371775, AA203545, AA992804, BG150088, BF476629, AI375285, AII23325, AV733036, AI827261, AA255534, AI280365, BF956540, W26395, W84875, W84876, AW839964, AI025922, W27544, H40726, H20214, AI702204,

HMVCG79	946	879020	1 - 1637	15 - 1651	AA543043, W35225, R51448, AW291129, R51337, BE810654, AI202999, N91431, AA069274, AA255506, F09068, H20124, W23761, BE810801, AA364813, N55974, AW816800, BE810844, AA485410, BE825376, AA069502, AA247607, BE810770, AA902947, BF766662, N58074, D59395, AC008123, AL137534, AB050412, and AC003049.
HSLJF33	947	879040	1 - 542	15 - 556	BF971208, BE869819, BF676817, AA258513, N21319, AA258357, AW293672, BF772376, AI337429, H71643, BF589677, H63685, N31254, BE878141, BF447980, AW169975, BF312727, H04371, AI075876, AW182150, H71642, AI081147, BE876444, AI245423, AA625063, AF244577, AJ387747, AK025880, AK026921, and AF244578. T12297, and T12296.
HFKJI43	948	879115	1 - 451	15 - 465	BF346036, AW161481, AL036384, BE262889, BF527646, BG250594, AI792419, BF981426, BF526011, BF348083, AL515587, BE892843, BE893935, BE312363, BE909963, BG259839, BF530993, AL530587, AL518333, AW403222, BE782496, AA349842, BE261745, AA682331, BE260138, BF527712, BE247341, AL534633, AL514800, AL518805, AL535793, BE313071, AL515494, AL532669, BF341785, BE779190, AL518527, AL518968, BF347094, BF345570, BE835080, BG259340, BG034329, BF304377, AI291107, C15937, AA319876, BF949074, AI298818, W76282, AA640877, BF316097, AL515586, AL518804, AA410938, BF347295, D54830, BE312509, BG110330, BF311257, W57826, AW239398, AL518526, N31096, BE881717, AA128062, BG107945, W68379, BF526417, AL518080, AL515493, AL518785, AL518332, BE171248, BE048241, BF874307, BE378687, H19895, BF975985, AL518079, AV748402, AA425456, AW879429, BE247452, AA953620, BF950119, T39453, BF947101, AW340681, and AF272043.
HFVHV40	949	879156	1 - 2356	15 - 2370	AL521837, AL527649, AL521838, AL526812, AL521838, AL516967, AL516968, BE796246, AW953470, BE733427, BE267273, BF984794, BF663431, BE746021, BE744871, BE727677, BE792949, BE891911, BG032127, BE732800, BE880158, BG029699, BF739970, BE547454, BF033906, BF341854, BE410292, BE407731, BE730406, BF974054, BE280141, BE276759, BE396111, BG033296, BE266155, BE313127, BE276474, AW245780, AW245421, AW170348, BF726872, AI125210, BF109831, BG259961, AA454052, BE387107, BF888054, AW960189, BE883630, BE207211, AW403899, BG024467, BF894254, AI208601, AA789053, BF432565, AI024666, AA031930, AW615502, AA032048, AI356072, W07699, BE296793, AI200867, C06239, AI369198, AI570447, AI332639, AI001138, AA622587, AW271396, AA632148, AI095065, BF907531, AI208972, AA934612, AI278658, AA846843, BE795828, AA758922, BE276249, BE386995, AA099581, AA431596, N62476, AW402977, AA864754, BF888062, BF110024, AA676722, BE901965, AII125001, AI570705, BE901394, BE797702, AA847774, AA609502, AI283903, AI493468,

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HTXLR12	950	879160	1 - 2287	15 - 2301	BE891940, AW298651, W28069, BF955273, BF851322, AA112484, T08083, BF980203, AI967988, BF056991, AI634401, and AI652732.
HDQEX68	951	879167	1 - 2191	15 - 2205	AU126034, AV716555, BG164623, AW954175, BF691402, BF701787, BE614508, BF667845, BF381552, BE614004, BG163382, BF209847, BF245443, AI700760, AI810672, AW959626, AA436783, BF669673, W06931, AW955938, AW582367, BF697678, AW022757, AI913143, BF112000, AI936412, BF997086, BF670097, AA135575, AI890309, BF697090, AW025467, BF698840, AI653296, AI978760, AW383953, AA449107, AI823647, AI952893, BE006122, BE302288, BE929485, AW080154, AU152463, BF667528, AW296731, AI754956, AI827338, AI373709, AI521896, AU130547, AI813442, AA291583, BE568457, BE673206, AW021357, BE467939, AW994791, AU149920, BF211081, AI080994, AI567720, AW338668, AA553455, AI087408, AA687111, AA135545, W80751, AI304776, W80787, BE622281, AA058389, BF221597, AA831738, AI346950, AA036879, AI469452, BF094472, AA099187, BF218884, AA127603, BF695894, BF094482, AA639202, AA099186, AA814666, W80894, AW795282, BE695745, BF670143, H06621, AW959622, AI678362, AA248479, W80839, D19587, R33675, BE247088, AI879800, H13605, AA056735, BE151247, H07129, AA043962, R26226, AI350485, BF002378, BF924127, BE247084, AA135513, T30458, AA948517, H08414, BF095650, BF910406, H95950, R26227, R51350, AA036864, AW379265, N71754, AA337868, R23356, AW804288, H08415,

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HTPHG81	952	879182	1 - 1689	15 - 1703	AU124431, BE700940, BE700869, BE700936, AW960435, BE908235, BF870875, BE772035, BE700861, AI903097, BE772040, BE840628, BE700876, AI700395, BE700938, BE700862, BE700873, BE700945, BE772042, BE700937, AW390483, BF525944, BE842730, BE842726, BE772099, AW514159, BE700941, AW582015, BE700904, BE772053, BE772066, BE772082, AA781090, BE772081, BE818958, AA305705, BE818955, BE772059, BE772019, AW170237, AW965129, BE840457, AW581975, BE830929, BE772101, BE818964, BE840434, AW339256, AW820559, BE772020, AI079309, AI140441, BE700851, H70004, BF849721, BF359589, BE700898, AI905362, R11344, AI022857, BG012510, AW517983, AI401014, AI379419, BE842723, BE818962, AI434349, AW673336, C15468, AA719006, BF439588, BG010792, AA703354, N50989, BE772047, BE772018, BE836162, H69547, AA574083, BE772074, BE818915, BE170135, BE840445, BE772086, BE772015, R09631, BE772087, AI251845, AI243536, T63151, AI983670, BE832289, T63006, BF091071, R06603, AA889063, BE772017, BE927455, BF110884, BE830923, AA565124, AW868068, BE830919, AI903834, AW752129, AW868069, AW674579, BE818892, BE818951, AA731490, AA344670, R07438, BE061069, AK027078, AL117402, AB007936, and AK001249.
HETFJ66	953	879189	1 - 2924	15 - 2938	AL518456, AL518457, AL535309, BF036947, AW177329, AW365330, AW365323, AW365322, BE548852, AW365331, BE782972, BE252916, BF508656, BF062884, AW177280, BF349186, AW177293, AW751887, BE391161, AW177283, AI634419, AW751893, AI655929, AW751913, BF349185, AW177210, AW177386, BE644774, AA780277, AW177327, AW177297, AW375451, BF349184, AW177290, AW751911, AW365328, AI861939, AW751897, AW177364, AI459228, AW177371, AW177298, AW958998, AW751896, N26002, AW177209, W68094, AW365324, AW375444, BE258077, AW177291, AI693285, AW365340, AW177366, AW751907, AA988619, AW177292, AW177330, AW177326, AA774277, AW365333, BF034446, AW177214, AW177331, AI656566, AW177361, AW751914, BF056518, AW751917, AW177367, AW365332, AA992335, AW177295, AI092878, AI971537, AI457746, AA992349, AV688516, AI918057, AW751918, AW751919, AW594513, BE466006, W67657,

					Accession Numbers
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HUVCM58	954	879222	1 - 1737	15 - 1751	AU136625, AV758108, AL532612, BF691477, BF208141, BF526250, AU139755, BF576897, AU138444, AW361626, BF218355, AA326713, BF695259, BF102702, AA256744, BE173585, AA459236, W31760, BF531085, BF951257, BE866130, BE173471, BE173481, BE173409, BE173586, AA022820, AA046581, AA043189, BF966191, BF352288, AV734597, AV659955, N57339, AW971689, BF241889, AW452739, BF966206, AW813810, BE150505, AA830510, R19454, AA349280, BE173590, AW753423, BE502920, AA385915, H92698, AI566027, T61007, AI766639, AA446503, AA376823, AA446322, BF677334, AI147871, C20624, AA369579, AA369411, AI267646, AW827132, AA127618, BF966850, AI423223, AU157616, AA641529, AW074400, BE349039, AA043190, BE242785, AI719873, AA627345, AU156799, AI419387, AI031904, AI159832, AI932664, BF939730, AI934352, AI886950, AA854750, AI619780, AI719353, H88016, N62242, AI371803, AI097237, N54489, BF446754, AA022728, BE468183, AW103783, BE895637, AA528304, AI082158, AK002102, AF113224, AF208863, AC021019, and AL358133.
HDPGJ03	955	879294	1 - 715	15 - 729	AI268407, AI831182, and AF305068.
HUSIT07	956	879441	1 - 1425	15 - 1439	BF793263, BE744545, BE876004, BF970359, BF314317, BE392161, BE789681, BF695490, BE314349, AI150130, AW089589, BE141819, AW007662, AW630842, AI354986, W28029, AA371513, AI208668, AA526605, AW956282, AW024017, BF746464, BF746995, AW162288, F13749, AI696793, AV701116, AA176605, AW964231, AI753365, AI457597, AW819125, AW974932, BF941382, AV703259,

AW673221, AI431434, BF681619, AA563770, AW504224, AW768279, AI061313,
BG236735, AW157005, BF965775, AI963720, AA488746, BE049229, AI358089,
AL046409, AW021583, AL042756, BF337453, AV762033, AL042771, BE139267,
BG222269, BF984807, AV695478, AV701234, AI755214, AW576251, AI754567,
AV740801, BG236628, AW500684, AW630298, BE872393, BF767028, BE676915,
AI028510, AW514093, AI954525, AI653515, AW407578, BF925512, AA579179,
AW975049, AW473467, BF805088, AW276827, AI754105, BF477463, BG058664,
AI284640, AI751162, AW662490, AW857327, AA992126, AW341903, AW965237,
BE139358, AV762220, AA843450, BF974756, AI537538, AI431240, AV726885,
AI281881, AW419262, AI889440, AI004591, BG032943, AL044858, AW504669,
AA847395, AL046746, BF750422, AA644090, AA613627, AW338417, AI613280,
AW193265, AI687206, R97235, AW956704, AA808998, AW020088, AI754037,
AA608520, AA574442, BF760919, AW970896, AW833862, H53168, BF589824,
AI246796, BE156426, BG029224, BF854308, AV754623, AA579184, AA584489,
AA610509, AA177061, BF793766, AW438643, AW270619, AI291268, AW504104,
AW574976, AA904211, AI291124, AW504022, AW768737, AA584482, AL041706,
AI636734, BF925251, AI431303, AA587131, BF667096, AA491814, BE395137,
AI279037, AV728928, AI350211, AW023672, AI345654, AW961757, BF668217,
AI619997, AA532419, AW271917, AI249688, AI446464, AI133164, BG056362,
BG164166, BF940837, AW970877, AW963565, AI868365, BG256457, AW958945,
AW962611, AI821881, AI821918, AW504435, BG059523, BE894890, AC006101,
AC024563, AC008543, AC027319, AC020913, AL031848, AC009032, AC000353,
AC005179, AL353140, AC008753, AL033526, AL049757, AL157938, AC005568,
AL031584, AL020996, AC009314, U96629, AC005052, AC008760, AC009086,
AC006277, AC011500, X69908, AC005013, AF038458, AC004263, AC002115,
AC005368, AC004590, AC003098, AP000466, AL121585, AP001695, AL365401,
AL445705, Z93244, AL135927, AC007227, AC005840, AL008725, AC006195,
AC006345, AL355306, Z83847, AC008569, AL096819, AL133448, AP001330,
AC002119, AP001594, AJ400877, AL008722, AC009892, U95742, AL133353,
AC002546, AC009477, AC007956, AC007216, AC000111, U73023, AP000557,
AL121981, AC008115, AC009509, AC026805, AC013436, AL008730, AL133453,
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AC008616, AC008102, AL021578, AL049780, AC007687, AC010553, AP000552,
AC009060, AC011489, AL135844, AC023490, Z98744, AC006064, AC009004, Z97056,
AC007363, AC002477, AP000692, AC009516, AC007221, Z81314, AL354864,
AL050321, AL050318, Z73963, AL078477, D83253, AC011462, AF196779, AC007774,
AC004383, AC083871, AL136111, AC018697, U91325, AL021154, AL136504,

HWHHN55	957	879514	1 - 1602	15 - 1616	AL049748, AC005103, AC003688, AC005184, AC010877, AL121928, AL049643, U63721, AC005089, AL163303, AC009134, AL136295, AC010134, AL445263, AC005682, AP000432, AL078581, AL078646, AL033527, AL161426, AB023049, Z97053, AL049709, AL139123, AP001684, AC004836, AP000558, AC002470, AC005207, AL133354, AC004583, AL109952, AC073316, AC007536, Z99774, AC004895, AC010458, AL031003, AC002350, Z84469, AC016637, AL022726, AL136137, AP000350, AC006241, AC002045, AL121868, AC004656, AP000556, AL049697, AL136139, AL159168, AL035404, AJ277546, AL136298, AL499628, AL121899, AC002400, AL163249, AL135924, AC007739, AC008805, AL049840, AC005899, AP000555, AL133211, AP001725, AP001712, AL024509, Z69653, AF314058, AC005037, AL133355, AC004531, AC005914, AC018751, AP001630, AL139395, AC069539, AC008745, AC005377, AF064861, AC010504, AL080314, AC010205, AC005069, AC004449, AC009247, AC023105, AL022311, AC005599, Z83844, AC002476, AX008040, AL049636, AL133551, AC007386, AC004510, AC004685, AC004805, AC009087, AC000064, AC004148, AF045448, Z93016, Z82244, AC007136, AC010451, AL022323, AP001331, AC000015, AP000065, AL121890, AL139333, AL157838, AC007308, Z97985, Z83826, AC004016, AC005921, AC005859, AL109840, AP000302, AC005057, AC005291, AL109925, AC006511, AC007510, AL031433, AC005998, AL122015, AC005224, AC003043, AL117354, Z99716, and AA508727. BE744935, BG024414, BE562674, BF109234, BE392666, AW377298, BE539840, BE905104, BG117806, BG118565, AW377335, BF964657, AW377300, AU144697, AW377370, AI970471, BE144586, AW752914, AW367852, AU159030, AW377374, AU159539, AA576526, AU159555, AI922500, AW377257, AI199486, AI123218, AA927738, AW377264, AA989195, BG056482, BE938379, AI091150, AA922738, AW752918, AW418802, W69888, AI560660, BE938389, AI612820, T81701, W69567, BF734737, AW752927, AW769721, AA742404, T81488, AW768836, BF475279, R71372, AW406239, H11524, AI084549, AW377389, R16877, AU118033, BE541711, AU141478, AL526446, BE880092, AI538103, AA807380, AA991853, AA468875, AW367837, BF476040, AW752922, AW377365, H11886, BF948106, AF161019, AJ131890, AK022476, AF218027, AF283478, AK021600, AF176099, AJ131889, and AC003694.
HITJH57	958	879541	1 - 1707	15 - 1721	AL536302, AI347130, AW027513, AW954660, AI660559, BF063427, BE910304, AI340321, BG230588, BG030487, AI214222, AU155474, AI803717, AW006987, BF038849, BG166086, AW301687, BE221184, AW016409, AI336534, AA015924, BF761125, AA307210, AA019155, AI283525, AA018238, BF756777, AA878131, AI269256, AA921711, BF229860, AI857978, AI090373, AI368031, AA017114, AW900223, AW403382, H84864, AI367923, R84448, AI284356, AL536301, AI080385, BE251142, AI350788, F29712, AA280994, BF761104, AA987803, BF808782, AA017329,

HMSND53	959	879589	1 - 3978	15 - 3992		
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HGBHG78	961	879611	1 - 569	15 - 583	AU130906, BF984210, BE382776, BE892933, BE298391, AU128196, BF683462, BE141049, BF683880, BF737298, AV736866, R67288, BF349181, BE266956, AV688174, AV688316, H16663, BF237634, AA336926, BE151863, BE890366, BE710492, AA261822, AW750617, BF723601, AK001606, AK022935, AF161534, AC009542, AC009330, and AX048089.
HTLHJ08	962	879620	1 - 1189	15 - 1203	AI092570, BF898230, BE929207, AL120738, BE719334, AB018310, and AL096766. BF195557, AI041014, AA993615, BF446877, AA349276, AW297315, and AL033528.
HSIDI48	963	879670	1 - 1369	15 - 1383	BE873436, AI951815, AI956094, AI745450, AI813886, AI557659, AW579065, BE870274, BE871298, BE769601, AW393065, AA533783, AI721101, AA468365, AW962442, AI560195, AW469133, AI858987, AI572115, AI565097, AI858299, AI318311, AW603383, AW749137, AI625125, BF335352, AI932443, H25030, AI990965, AA635976, AA533344, AI535829, R24141, AW193143, AW166653, AA366876, AA807845, AW816475, AA526856, BE873591, AA557883, AW816483, AW962441, BF334908, AA526856, AI678368, AW571499, AA630850, AW062682, AV703785, AV758870, AV760014, AI469384, AI249473, AL047429, AI889426, AI292275, AA584484, AA744018, AA862312, AW961593, AW265385, AV760389, AW873417, BE139358, AI499954, BE139267, AV761107, AI745335, N57681, AW175834, AW383952, AA366716, AW467536, BF111583, AW963895, AI254779, AI821987, AI732869, AA904275, AW020088, BF229305, AI733856, AI431434, BF974756,

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Clone	No.	ID	From	To	Related Accession Numbers
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HRDDU37	964	879672	1 - 597	15 - 611	BG036897, AW957881, AW957802, BE410387, AA307675, R56811, R13877, H08036, AW672820, BE010067, R13211, AW975808, BF806624, R47783, R34521, Z45992, AW170381, AA373859, N99509, W32806, BF511393, BF063359, AI057135, AW377577, AW450256, AA806429, AI022332, AI375097, and AC002094.
HFLUI19	965	879691	1 - 2669	15 - 2683	D51542, D51590, D51528, AI526129, D51545, T68805, D51502, AI526116, AA084690, D59510, T23769, D49849, Y08856, Y08854, Y08855, D38559, and I21645.
HTWAG66	966	879698	1 - 789	15 - 803	AC002302.
HLCLE14	967	879732	1 - 670	15 - 684	BE622267, AU117894, BE410502, BF314711, AA458526, BE732552, AW959248, AA039656, BF868459, BE047767, BF088649, BG011758, AA323012, BF962639, BF868526, AA428017, BF313531, AA410862, AA477912, AA743844, BF338073, AA402828, AA456448, AA085205, BF962646, BE888300, BF689989, AA488266, H25605, W17309, BG113257, AA295025, H20931, BF875061, H20915, R53510, R48651, AU127096, W44351, AW753496, BE312316, BF435836, BE727881, AW370887, AA477929, AL137744, and AK001629.
HOFMH52	968	879744	1 - 1589	15 - 1603	AL532301, BE713203, AW969106, BE713202, BE713392, BE713204, BE713207, BF513617, BE713388, AI633708, AL120116, AA504739, AA496783, BE716086, N59542, AU150004, AI338475, N34798, AI056613, AI276758, AA702001, AI805424, AI440355, AA687291, AA504642, W68512, AI253078, AI613458, AI470918, AA255945, AA775538, BF593458, AW028316, AI225061, AA402439, R63782, AI699684, W68397, AW518244, AA514521, AI284252, AA398405, H87911, H90408, AW884968, N52882, R63731, R95763, AI701842, H90461, R91611, AV687266, AU159658, AA721323, R95809, H87365, N22120, AI383211, R91562, N44520, AI219180, BE713394, BE713208, BE713389, BE713201, AK025448, AK022815, and AK023972.
HWAHE17	969	879774	1 - 670	15 - 684	AA424092, AV754795, AL134778, and AC020717.
HWAEG32	970	879900	1 - 761	15 - 775	D62420, and D79551.
HSLHB42	971	879927	1 - 1385	15 - 1399	AW138498, AA322737, AI184847, and AC005841.
HDSAC28	972	879957	1 - 423	15 - 437	
HFIHT27	973	879972	1 - 1920	15 - 1934	AU131281, AU128692, AA601062, AL041074, BE897245, AW993476, BF671678, BF095221, AW369650, AW992992, AA020744, W24707, AA374738, AA192207, BF095641, BE270359, AB018347, and AK022945.
HBIMS61	974	879980	1 - 1271	15 - 1285	AI741157, BE326969, BF514595, AI733570, AI867214, AI825826, AI792171, AI435439,

HCDAH28	975	880010	1 - 1431	15 - 1445	AI890280, AI985464, AA341017, AA864402, AW244010, AI094646, BG223184, AW269228, AI433354, AI269660, AI686233, AI493107, AA994299, AI971806, BE615731, AK024551, and AL031719.
HSDFD90	976	880039	1 - 1680	15 - 1694	BF432206, AA843898, BF064282, AI051065, AI075210, AI741816, AA888796, AI453831, AI761457, H87971, and AW004862.
HTLJK34	977	880137	1 - 768	15 - 782	AA398927, AI969361, AA781910, AA426067, AA812822, AI365155, AA402066, AW880037, BG180468, AI335426, AI348777, BF895953, AI919345, AW088899, AI434833, BF527014, BE393551, AA830821, AI869367, AI932638, BE879516, BF909758, AW411235, BF968910, AI801605, AI288285, AW263823, BE061389, AL120853, AI886123, BE963035, AW103628, BE875407, AI805688, AI308032, AV755459, AI344785, AV757598, BE897632, AI250663, AI874166, BE965355, BE964497, AI567582, BF339322, BE621256, AI952920, AI812015, AW079159, AW087938, BF885675, BF970449, AA427700, BE928768, AI620089, BF915208, AW403717, BF814541, AI952862, AI612759, BE968711, BF904180, BF970768, AI963062, AI280661, AW827150, AW105429, AV746964, AW193125, AI932949, F27788, BE964767, AI433976, BE907440, AV655250, AI686552, AI572418, BE964614, AA853213, BF525539, AI471361, AI922901, D50977, BG249582, AW168485, BG256090, AI791396, BG113299, AI950664, AW238730, BF038804, AI537677, AI538342, AW999049, AI583054, AI345746, AI610645, AV729259, AI445992, AW162189, AW117746, AI554218, AI866002, BF914091, AW079572, BF970990, BG107847, AW088134, AI873644, BG026428, AI933589, BF817402, AI680457, AW149925, AA420758, BF816455, AI566630, AI432040, AI623682, AI537617, BG120816, BF817926, BE879612, BE047952, AI434741, AI689420, BF815196, AI251830, BE963918, AW858243, BE544111, AV729189, AI366549, AI334445, AI636719, AI921379, AI568138, AI569328, AA279293, N80094, BG260037, AW238688, AI499986, AW083804, AV714391, AW410969, AL119791, AI608676, AW083573, BG255895, BF344652, AW827103, AI249962, BF036115, BF793245, AI339435, AI537261, AI872914, AW088903, AI498579, BG122918, AV710199, AV757528, AI886181, BF673434, AI619716, BF035653, BG030364, AW151136, BF818009, AW151729, AA493647, AI539771, AI446373, AW073898, AI611743, BF885085, AI478123, AI251205, BG026746, AI572892, BE966699, AI758512, AI805638, AI275640, AI493559, AW169653, AW152469, AL041772, N74355, AI073952, AI863321, AW150225, AV682011, BF904258, AV728833, AL110306, BF204484, AA480074, AL049085, AI888944, AW089258, BF853807, BF344031, BE966365, AV659536, BF816785, BF304748, AI929108, AL039086, AI445990, AI364788, AW059837, AI280732, AI494201, AI802542, BF341210, AI669459, AI799650, BG032919, AI811912,

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AK026528, AB048953, Y11587, AK026597, and AK026526.

HNGKC65	978	880142	1 - 1657	15 - 1671	
HHENP77	979	880178	1 - 3099	15 - 3113	AL520380, AW964307, AI161343, AW967203, AW954939, AI221950, AL041826, AU137320, AI271350, AI205879, AI080159, AA868067, BG111970, AA931374, AA213383, AA449162, AW961428, AU157129, AA452364, W84487, AA025228, AI743040, T08347, AA970366, W20339, Z39489, F02802, W84564, N92722, T08346, AA207021, F06532, AA025991, AA213601, R42398, AA328933, F06533, BE972558, AI861833, F08486, R14674, R37459, C02421, F04701, N92721, BF062378, AI190488, BG032378, AI808607, BE702258, AA452138, D80443, H51515, AI183981, AC004142, AA442092, D49802, AF291437, and AK001991.
HDPBD83	980	880199	1 - 1706	15 - 1720	AL528340, AU132836, AU132782, AU129989, BF568276, BF568338, BF313050, BF315873, BF206196, BG035754, BF312233, BE168071, AU118387, BE909834, BF843422, BE313362, AW815024, BF925267, BE312550, BE148833, BF980572, BF309260, BF926526, BE312229, BF314730, BG014610, BF926531, AU140227, BF926537, W59997, W52743, BF568513, BE262505, AW502586, BE88221, BF436609, AW503001, Z25334, AI338720, BG007998, BE784119, BE259593, BE274273, BE729190, BE274361, AA355740, AI434817, BF923138, BF689646, BF987045, BE906440, BE005446, BF858507, AA371718, BG010932, BF798229, BF857878, AW752841, BE084570, AW819777, AB040932, AK023046, AK023272, AK000664, AF234600, and AK024398.
HHEVU86	981	880221	1 - 795	15 - 809	BF811204, AA161299, AI825905, AW129576, AU144143, AW843904, AI354376, AW081897, and AK021483.
HNFIB27	982	880254	1 - 2359	15 - 2373	AL522577, AW955220, BF792769, AW955046, AI686590, BG056551, AA324542, BE463650, AA974290, AI624287, BG056614, AII23639, AW964439, BE350481, AL133678, AA908233, AV690320, R87196, AA864252, AA972260, T33896, AA323557, AV691137, BG152404, AA602774, BF448858, AA324658, BE719066, AA323457, R87697, R87277, AI803367, AI916277, M78932, AA363949, Z42954, AA322750, R87197, AA325248, AW869776, R87698, BF875027, BF229930, BE856340, AL522578, T30908, BF229938, AA318791, H51781, AA339760, F02433, BF881193, BE703262, AW793759, BF738498, and AB018269.
HAPSG46	983	880278	1 - 1718	15 - 1732	
HTEDK31	984	880341	1 - 1594	15 - 1608	BF940114, AI361316, BG223420, and AA876320.
HCWFWO 7	985	880358	1 - 1104	15 - 1118	BF979988, AA075159, AA075159, BE467492, AA478903, BE467492, AA826045, AA075158, AA053855, AA707527, AI198687, AW117252, AI802939, AI081321, AW514188, AA826044, AW665176, AA280224, AA703951, AA729909, BF770936, AA832280, AW821213, BG149919, AA806497, AI082669, AA281465, BF594189, BE938724, BE927899, BE844153, T80850, H56516, BF854811, BE747478, C01469, AW609559, AA015820, AA082154, BF310655, AW263826, BE964636, AI349933,

					Accessions
					AL515047, AW078689, AI584118, BE011880, AI696340, AI343059, AL514421, BE963082, BF698359, AW104129, AW082997, AW026123, AI203903, AV721967, AI688823, AI538881, AI521128, BF681103, AL047344, AI560545, BF572734, AW021373, AL514935, AL138386, AI696611, AV682272, AA848053, AB031050, AC005319, AF226324, AL049423, AL121952, AL078630, I48978, AX019230, AF029728, AC006203, AF177767, Z82206, I48979, AC004987, AC006112, AF109906, AK026057, AL157878, AX019229, AC069550, AP001343, AC009501, AL161628, AL353625, AL109919, AL080156, and AP001746.
HUFCR29	986	1 - 1799	880363	15 - 1813	BE617082, AV709406, AL532888, AI628756, AV727790, AI336856, BF001659, AA477891, AI761628, AI439145, AA526478, AI797579, AI371098, AII38451, AI742223, AI687691, AW339261, BE304821, AI795955, AI380752, AI913710, AA502361, AW300001, BF063682, AA526500, AW502070, AA477779, AI368254, AV725114, AI280863, AI473786, AI420161, AA300057, AI241125, BF939216, AA630100, AA578712, AW007083, AI971336, BF222682, AI351111, AW959589, AV708470, AI910797, AA948481, AI927041, BF063079, BF850084, AA533624, AA494512, BE069241, AI380536, AA300056, AW935725, AI340713, AI859586, AI311773, AI269781, BE774325, AI311238, AW935740, AA283189, AI880262, AI311614, T75352, AI910336, AW081083, AI250581, BE069286, BE961980, BE838969, and AW629916.
HNTCN90	987	1 - 623	880370	15 - 637	AA332576, AI432007, and AF272897.
HCMSE07	988	1 - 1191	880378	15 - 1205	BF698153, BE897376, BF032925, AV69491, AV704128, AI681115, AI672348, BF446644, AW956353, AW173697, AI565451, AL079990, AW305215, AA115462, BE220951, AA148788, AW081450, AW020072, AI094153, AI088661, AI051834, AI469307, AA031780, N44611, AI610893, AW130820, AA115214, AI970462, AA233114, AI620951, N34679, AA115204, AA987696, N69772, AA495921, AA495922, BG035943, AI079994, AW236674, AI434100, AI039432, BE551078, AI770044, AA961227, AA150297, AA115067, AI873440, AA938897, AW959113, BF969641, AI301357, AW959111, AV694096, BF594815, AA603790, AA243692, AA910225, AW935153, AW834971, AV750339, AA031879, AA377521, AV728255, AI913596, AW834903, AI702644, AA961701, AW452143, AW611695, AV747546, AI352693, BE168076, AI381836, AI767254, AW605628, AI247300, BE163839, BE163829, AI050072, BF248126, BE163847, BE163920, BE163850, AA573940, BE163744, BF351192, AI830541, BF855942, BE163751, BF351198, AA081742, AI493755, BF696480, AI865675, BE163895, AW939553, BE163849, BE163741, BF348392, BE163759, AA937056, AI266405, AW138034, AI648373, AA653705, AW602492, R37287, AW576838, Z41281, BF819817, BG170888, AI090946, AI612953, AV747400, BE073811, AW103627, AA326653, F08269, AI572322, T49708, N84377, AA364595, BG114719, D25919, BG261120, N85358, T49709, T49717, AA094410, BF103921, AA385800,

					Accessions
HWMEV61	989	880405	1 - 1841	15 - 1855	AV648266, AV648262, AV648234, AV648217, AV648346, AV648541, AV648424, AV648503, AL355685, AP001717, AP000045, AP000113, and AP000300.
HDPWT82	990	880431	1 - 1021	15 - 1035	BG259815, BE892851, BE539936, AW854093, BG119701, BE141333, AW629819, AI823398, BF330636, W27116, AV747223, AI581128, AL119465, AA897785, AW004741, AW613378, AI808377, AV746630, AV733232, W28405, AI280964, AW006936, AI872266, BF351925, R60290, BF856733, AW137140, AV655167, AA383051, AII67420, AA215764, BE708553, AI362366, AII84026, R28463, BF325707, BE000615, R26454, W07404, BE843896, AI701315, BF820955, AL513693, AL513865, AK025708, AX005900, and AB041801.
HBGOU17	991	880444	1 - 2090	15 - 2104	AI800779, AI813885, AA329926, AW976286, and AK026720.
HHAMV78	992	880520	1 - 632	15 - 646	BE867496, BE541350, BE896556, AI809134, AI027632, N74407, N74353, AI363139, T87904, BE327405, AI560940, AW963834, AI016234, AA375952, W02620, N94712, AI797295, BF382054, BF672265, BF843748, R10903, BE931815, T87997, N63499, T06423, R10955, AA903337, D78701, AI206491, BF928321, AI083569, BF812773, BF383030, AW963833, H64853, W03115, AV707885, BF380711, AI905040, AW368196, and AL121747.
HMALN60	993	880542	1 - 579	15 - 593	AI858626, AI601129, AW172770, BF975361, BE784748, AA682471, AI766986, AI991157, AA526574, AII86151, AW043630, AA873539, AI362945, AA872582, BE251892, AI216109, AI352221, AI300440, AI277646, AI200585, AI609596, N22521, AI097123, AA480240, AW955089, AA576140, AA635177, AI200035, AI160742, AW025601, T18886, BG150232, AA984955, AI918868, AA506923, AA827292, AA715425, AI197929, AI023066, AV751709, H95218, AA057620, AI298371, AI242564, AW592200, W24658, R16278, AII92319, AA995617, AI263519, AA027293, AA988287, BF844937, AA886585, T34012, F20966, AW799456, AW799484, AA503038, AW205928, AI080188, AI287554, AA698957, AA723369, AA297339, AI571753, AA525455, H95219, AA745675, AA515419, AA723369, AW273731, AA089510, AA027292, AA047785, BE858654, F36398, AII93352, F26599, AW273731, BF926440, BE770178, D20944, AA652711, C15697, D81584, AL449243, Z82192, and AL021878.
HETBT53	994	880575	1 - 2162	15 - 2176	AU119315, BE729577, AU143374, BE173408, BE410936, BE272249, BE275591, BE898306, BE613511, BG118257, BG105587, BE408273, BE279104, BF125749, BF027322, BE612708, BE385744, W72350, BE837421, AW471105, AW290878, AW572889, BF060903, N77334, BE391538, AW402293, BE778462, AI808711, AU145692, BF055066, AA424884, AI284353, AA307200, AA424722, AI284350, AW394131, AW612713, AA158631, BF929694, AW135464, AI419454, AW959029, AA448799, W26121, AA158431, BE645276, C15360, AW394164, BF725977, H11532,

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HRAEC49	995	880595	1 - 1525	15 - 1539	AL520674, AL534182, AL514046, BG116788, BG110085, BF968470, BF979090, AU119095, BE563103, BE390369, BE264950, AW250259, AV693651, AW631130, AL520673, AA232119, BF800738, BE833908, W32462, AU126582, AI261382, AA333799, AW965382, BE833903, AV736006, W19825, BE077977, AI584111, AV687848, AW295553, Z45474, AW172648, AI579900, AI659248, AV690738, AV736678, AI761236, AI479549, AW207336, AA770013, AW043561, BF448094, T93805, AW873018, AA719366, AI765459, AI138222, AI138467, AW249494, AI739593, AI283702, AI824823, AW236706, AW193724, AA825670, W73805, AA804605, BE550316, AI969218, AA926663, AV683097, AA506158, R52016, AW771327, AW514885, AI580499, N35232, N23225, AW167821, N23136, AI685971, AI634397, AI383358, AU145795, AW630343, BF196000, AI985305, AI989436, AW089781, AI453655, T86131, AI813645, AU150687, F04205, AW272518, AU145519, BF941168, AI830373, AA725891, D20759, H29305, AU149704, AI090687, Z41171, AA879402, AA137242, AA232535, AW971038, AA757311, AW137222, R49626, AA084633, R34752, AA225197, AV741046, BE041306, BE672682, AW771855, AI702894, F03532, AV704496, BF316302, BF360963, AW078861, AA492346, AV691780, BE934278, AW002571, AI687548, AA136462, BE541691, BE260496, AA090641, BG150319, AW301178, AI399678, T86232, BE260866, N28753, AA885410, N28806, R88612, AA496176, R08969, T93856, U78723, AF132947, AL133020, AK021758, AL009179, AF151035, and AK001354.
HNHBD03	996	880637	1 - 1819	15 - 1833	AL524088, AL110452, AW294123, AA280081, BF589432, AW149570, AW055009, AI949814, AW130349, AI142520, AI982810, AA047100, BE855561, AW157022, AA281323, AA101644, AA938948, AA279077, AW629474, AA592999, AA485084, AA101643, AA631312, AA775640, AA047237, AI183353, AA759272, AI374883, AW892064, AW073343, AA485196, AI081003, AA491277, AI370489, AI243704, AW613930, AW613943, AA757371, AI824149, AA897566, AI362091, AI243938, AA883065, AW749657, AB047883, and AK026237.

HTTCB17	997	880657	1 - 2867	15 - 2881	AU132215, AL525679, AL515177, BG113333, BE869021, AI499419, AU139159, AI820049, BG121796, AW070938, BG259160, AL042008, AA984061, BE537415, BF026831, BE537527, BE388898, AA781142, AL042032, AL041636, AW972110, AL043672, BE542868, AW873327, BG058572, BE566338, AA521150, BE466680, AI090248, AU153792, AW183150, AA533251, AW969193, BE464613, AU157904, AW090185, AA236580, BF194931, AI986141, AA234444, AL515178, T64870, AI039274, BF213699, AW779867, AA761405, AA688276, AA285153, H58691, AI025833, AI283608, AA454934, AI223971, AA421748, AI025468, R58865, AA740862, AA836810, BE093352, AU149876, AA911678, T40471, AA157675, H23351, AF012373, N53133, AW895501, AV748343, AI698072, T67438, AI912060, AI220192, AA284019, T99670, AA829259, AL043673, AA224471, T39198, AA215781, H23240, BE775139, AA056347, AI698363, T99070, AL046440, BF814152, T69471, AL046465, BE869567, AI968320, AA652360, BF094036, BF960615, BF960069, AW265609, AA626470, AA428563, X84692, AF226864, AK002169, AK024285, AC007172, AY008299, U07155, and AK024960.
HE9QG38	998	880670	1 - 2046	15 - 2060	BE271581, AW955764, BE619409, BE866984, BG253057, AW968761, BE886116, BF344964, AW976410, BF345023, BE780277, BE785395, BF754944, AA488906, BE890845, BF512399, AW360767, AI768670, AI277757, AW044308, AW295995, AW292871, AI277756, BE675386, AV746640, AW274000, AI763411, AI438941, BF240692, BE180746, AI291098, AW004641, AI075028, BE463592, AI640134, BE676146, BF971220, AA833791, R82926, AI333095, AA928138, AA768096, BG031738, AA703549, AA878923, AA724426, AA330063, AA210688, AA213455, N26246, W44749, AA973149, N36347, H18543, BF998023, AW022223, AW779804, AA743465, AI473421, BE259189, H09231, T62124, H79886, AA334229, AI928653, BE183666, BE178263, AA827829, BE780093, BE178165, T10351, R25082, BF743854, AA234633, R17075, BE156874, AI364687, BE697397, AA234809, R33461, BF674513, AA211659, AA148773, AA989016, R09836, Z46059, R57316, N78794, T98890, Z20035, AA152343, AI547312, BE220795, BF513485, BF509638, AK024669, AF130049, and A74914.
HTTJY18	999	880697	1 - 4325	15 - 4339	AL525571, AL533731, BF976303, BF685788, BF685652, BF973133, BF058850, BF976400, BF976323, BG150099, BE892777, BG029184, BF237667, AV656017, BF691730, AI557497, AI766034, BG024889, BF971749, BF972796, AW962881, AI346436, BE674341, BE467218, AI693265, BF309470, BE675023, BF058658, BF111235, AI738725, AW119055, AI160450, AI017930, AI797257, AI991629, AI798116, W68181, BF591010, AA625367, AA490784, BF572914, AA044667, W67722, BF057254, BF573414, BF736112, BF130493, AI671520, BF110929, BE856087, AW500111, AA504141, AA631316, AA767225, AI806219, AW408108, BE349301, AW444920,

| HPSND10 | 1000 | 880733 | 1 - 1638 | 15 - 1652 | AW500524, AL134814, AA504403, BF213546, BG258521, AI751104, AW516077, BF115723, BF061379, AI128490, BF109772, AW118565, AI692421, AW500252, AA478628, AA574142, AW404045, BF513045, BF513217, N34063, AA865477, AW500009, BF445329, AA724644, AW504625, BE973593, AI338294, AA772221, AI367881, N25707, AA261859, AW503394, AA459048, AI970650, AL135604, BE972776, AI262143, BE565664, AA488873, AI927358, BF571351, AI807827, AA831431, AI375320, AA156896, AA614686, AA705068, AI689872, N20622, AI681820, AW001622, AW614979, BF215153, AI984819, AW630591, AI014617, AW504068, AA480905, AA261860, AI867384, AA435533, AI784526, AI160087, AW504099, AAI66738, BE971273, D82419, N34090, AI696079, AW504962, BE348697, AI285773, AA748764, AI262134, W19430, AW501253, AW962657, AA551244, AA830573, AA594011, BF109089, AW418919, AA922932, AW028030, AA521187, AI039256, AA236003, AW604948, AW277237, N92776, AA765180, AI970640, N29890, N42538, AA732578, AI734932, N20047, AA906348, AA458859, AW406898, AA809901, AA602108, AI224063, N36867, AI708167, R01227, AA256635, AA641971, AW504187, N57554, AI766701, N25677, W28360, AA476626, AV689648, BF805957, AA928247, AW139747, AW500246, AW014251, AA490590, AW500481, AI751105, AA341059, N34097, AI086671, H43996, AA811989, AA256528, W19342, AA312978, AI033145, AA807336, AW611790, AW968921, AW117721, AI334709, W25524, AW119206, R81082, AA737427, BE245138, BF799306, AI813973, AW962652, AW005026, BE243789, AW405044, AA488853, AA074480, AI383401, AI292298, AA832284, AW571417, H42547, AW407878, W19267, AA704947, AI263119, W81357, R78198, AA167018, AA811362, AI285699, H43433, H84090, AA810744, AI377900, AA676862, AA018129, AW502893, R80972, AI806914, AA491236, AA725290, AI537298, AW953968, H84091, H02400, AA491229, AW802024, AI921449, AA975459, AI766614, AA553859, BE169533, AA766645, BF810125, AW449400, AW275577, BE076263, R82713, AR083259, AL121833, AF151834, AF151039, AJ245898, U93243, AF161502, AJ245899, AL138717, AL139804, R01340, R23498, R28019, R28134, R34375, R34495, R47909, R48013, R77825, R80959, H22250, H27095, H42546, H43997, R84879, N29202, N45609, N74950, W23568, W79656, AA018130, AA044802, AA074479, AA151369, AA150043, AA152125, AA156816, AA210800, AA211896, AA256716, AA480968, AA488925, AA488952, AA622355, AA714856, AA721265, AA736770, AA746101, AA805302, AA808364, AA810117, AA918628, D79301, C01426, N87578, C18400, AA091907, AA094806, AA648868, AA449155, AA889990, D20178, Z39797, Z43736, D45501, AI146569, AI339392, AI222553, AI383763, AI651562, AI219994, AI220842, and AI337517. |
| | | | | | BE793894, AI807759, AW450916, BF514313, AA043271, AA743402, AW275098, |

				BF063672, W03512, N67515, AI910822, AI914953, AI095495, R49704, AA857790, AW511159, BE252860, R40481, AI394479, AA827387, H21772, AA043270, R88601, BE794741, AA378050, AA953772, R13050, AW197695, BE265969, BF972450, AA323849, AW118231, R19093, T16265, H21771, C01211, BF971537, BG030873, BF941824, AI797365, and BE266351.
HDABX58	1001	1 - 2031	15 - 2045	AL535214, AL040644, BE018704, AL040643, AL515259, BF984005, BG180466, AW246320, AI650302, AL042804, AI650559, BF983767, AI927626, BF223633, AI298438, AW770569, AI568388, BF062444, BE671125, AW300584, BE328819, BE465163, BG149693, AA984239, AI554609, BF195768, BE467686, BE674277, AW005800, BE046386, BF448183, AI563968, BE551069, AI797053, BE503133, AI564013, AW770770, AA894913, AA621570, BF528350, AI126557, BG007394, AW612787, AI803219, AI972673, BF195970, AW014098, AI962504, AI357569, BF064166, N25930, BF435240, H97941, AI343941, BE302273, AI275817, AW242349, AW242665, AI795978, N70583, AI536786, N29462, AW603681, AI357419, AA468485, AA467890, AI620137, AW779786, AA102261, AI040293, AA974172, AI537410, BE315558, AI565749, R37635, BF038852, R59318, AI088418, AA099791, AW958851, AW003157, W45584, AW236035, R59318, AI088418, T51561, N35536, AA040930, R59317, AA993669, N35574, AA040929, AA467832, W45547, AI609030, AI824739, AA173919, AW088169, R35817, AW138432, AW237627, N41486, AA865263, N42494, T48178, R13777, BF358807, BF981084, AA344737, AI630737, AI868876, AV656732, AA357540, AI632149, AA211260, BF196978, AI741060, BE326367, AW582605, W04884, AA470359, AA299579, N26485, N56162, BF732830, AL515260, AV688569, AA464150, N39275, AI241922, T25989, AL042803, BF002859, AK000391, AF095136, AK000475, AF095150, AF095147, AF095149, AF095142, AF095143, AF095148, AF095146, AF095145, and AF095144.
HE9PB45	1002	1 - 1225	15 - 1239	AA464839, BE269516, AW470830, AI218646, BG115487, AW504536, BE739191, AI808512, BE907567, BF381742, AW044532, W20358, AA780196, BE894120, BF031803, AA450310, BE767266, AA243525, BF248139, AI358214, AC018646, and AC008154.
HELGM94	1003	1 - 1998	15 - 2012	BE274416, BE796471, BE732851, BE274942, BE744582, BF569175, BE742701, BE256762, BE742144, BE795254, BF568869, BE790574, BE563305, BF568576, BE746156, BE740481, BG033090, AI278617, BF568882, AV708596, BE408128, BF314731, BE792080, BE616046, BE800001, BE262693, BF684849, BE277245, BE733530, AI609398, AW949616, BF205911, BF027522, BE727806, BE731898, BE901877, BE410318, BE798504, BF027691, BG032952, BE734282, BF206192, BF033471, BE789134, BE730490, AV722377, BF795868, BE408030, BE791118, BE254394, BE793766, AI081552, BE798773, AA621655, BE382422, BG115131,

BE734933, BE787688, BE513948, BE260840, BF206576, BE409751, BE898660, BG116758, BE407486, BE407852, BE740227, AA868455, BE280149, BE798617, BE868285, BE409448, BE390161, BE278593, BF343357, BF316152, BE727621, BE262523, BE514065, BG023982, AI290739, BE390639, AI608719, BE279396, BG032717, BE868201, BE281278, BE277366, BF204947, BE895652, BE729775, BE389707, BF309530, BE409640, AV708019, BF027260, BE744602, BF310580, BG248409, BE902109, BE278363, AV704825, BF183004, BF315672, BF570336, BE514893, BE410441, BF312894, BE410258, BE390801, BF569828, BE385999, BE276586, BG248175, BE390307, BE965112, BF182904, AV662028, BF311017, AW574771, BE410454, BF972701, BF182972, BE390006, BG250350, BF314117, BF316043, BE389680, BF314905, BE267406, BE296936, BE300696, AW575188, AA421224, BE731194, AA421214, BE906764, BF686051, BF317239, BF683145, BG251234, BF125886, BE387592, BE858260, AW009516, BE393065, BF026896, BF055246, AW193527, BF310514, BF125089, AV749488, AA868840, AW001133, BE546186, BE265502, AI376946, AI735188, AW247558, BE254798, BE304800, AW615534, BF314091, AI022091, BF689296, AI754809, AI567964, AA993670, AI143752, AI743002, AW009876, BF237748, BE276886, BF972312, AA911941, BE267492, AA888156, AA602889, AI277633, BE378913, AI689150, N40529, AW248397, BF688487, AI241348, BE514652, AA843194, AA873585, AA947889, BF313180, AA425965, AI090471, BE272030, AI273254, AA989498, AA550844, BE747789, AA579086, AW615600, AI300301, AA488241, AI284299, AI190110, AA449842, BF149324, BE740734, AA612762, AW250093, BE409261, AI026923, AA421945, BF106098, AA622170, AA468742, BG118322, AA830858, AA993166, AA078825, BE281522, BF974406, AI018058, AI564786, AW250846, BE256506, AA421946, AA410582, AA429053, AA683333, AA402945, BE785757, AI301856, R69521, AI525649, AA847314, BE742981, AA468762, AI080736, AA429082, AA460139, AV688855, AA476292, AW949617, AW403534, AI268605, AA602504, AA581663, AA443534, BF316956, AA830904, AA610770, L38995, X84694, L38996, S75463, Y11796, Y11797, T70058, T74871, T83115, R20760, R45183, H14233, H23087, H23088, H30244, H30633, R84553, R87220, R87285, R87446, H49168, H87247, H87295, H96271, N31446, N63003, N98909, W00489, W19804, W94599, W95828, N90006, AA053001, AA076631, AA078793, AA099847, AA155589, AA258525, AA460736, AA463916, AA280940, AA468553, AA587426, AA662376, AA665325, AA837812, AA857088, AA857872, AA864547, AA983218, AA988319, N53896, N79911, N85692, W05255, AA093258, AA654151, AA216765, AA248261, AA405877, AA449898, AA449965, AA455853, AA405186, AA778048, AA844795, AA773338, AI005580, Z28833, D20373, Z41560, F02045, F05797, F08593, F11498, F00281, F09159, AA693504,

AI244591, AI269128, AI343791, AI350362, AI351795, AI417506, AI471315, AI423684, AI160438, and AI654419.

Clone	ID	Code			Accessions
HJBBC09	1004	880809	1 - 1786	15 - 1800	AL530941, AL531095, AL532415, BE740897, AI741203, AL530940, BE888539, BG035156, AW014759, AU123486, AU155101, AI460064, AA602593, BF195480, BF110787, AA809772, AA151826, AI017084, AA905715, AA524253, AI685330, AI367986, AA935116, AI887031, AA912942, AA429257, AI372506, AI372507, AW873642, AI075826, AA349736, AA151825, AU133950, R70283, AA149523, AA693777, AI824613, AA233638, R48373, R48272, AI193215, BE736887, AI873222, AW967330, AA532784, AA954462, AA150514, AW016701, BF240820, AA349735, BE563863, BG149943, BF574008, AI961072, BE162572, AA235641, AW002935, AA410864, AA150106, AA356291, AI422472, AI572700, AA428698, BF872868, AW103184, AA878262, R70244, AI565706, AA904449, AA262321, AA338177, BE158302, AW938717, BE158297, AW844464, AK001177, AX046392, and AL445248.
HTXJF02	1005	880913	1 - 681	15 - 695	BE393228, BE898028, BF308677, BE895273, AL537185, BF343304, BF795730, AL525354, AU132795, BE273858, BE875008, BE907136, BG034828, BE748432, BG177442, BF130044, BF207179, BF033227, BF030142, BE868645, AA130946, AW967752, AI751840, BF247381, BF569346, R51237, BE386334, R88507, AW963553, BF968741, BE391437, R97750, AA482657, BE786444, AW402179, AW072085, BG033780, BF752903, H56555, C18458, W03395, AA126401, AI076498, H93026, BE162511, BE175287, BE162512, BF766840, BE093107, BE909504, AW602285, BF766841, BG008756, AA535341, BF685918, AA380705, AL139289, AF151846, AK001653, and AF170907.
HKAEN78	1006	880927	1 - 908	15 - 922	BE887597, BE397131, BE408292, BE622330, BE703000, BF971531, BE269849, BE391475, BE302668, BF131069, AA306924, AW958831, BF978756, BE304348, T73855, T83294, BE622791, BG105604, BG014569, T85637, BE741562, BG031185, BE967252, and BG014560.
HKADD76	1007	880936	1 - 1557	15 - 1571	AI608603, BE140256, AW872982, BF832764, AW352295, AI767967, AA863266, AW085774, AW238519, AW117932, AW606064, AI310728, BF105292, BF350121, BF825661, AA865790, AW772195, BE889218, AA864183, BF354847, AI141812, BF832729, AI355569, BF832728, BF354850, BF350182, BF354844, AA595971, BF354848, BF354846, BE350405, BF825662, BF353627, AW080463, BF353788, U75833, BF736474, BE141732, BE141331, AF081497, AF193809, AX041041, AF284446, AF185277, AF193810, AF219986, AF219985, AF219984, and AF219983.
HKIYF62	1008	880972	1 - 2208	15 - 2222	AV725121, AV707643, BF339141, BG056129, AI075977, BG151555, AW950770, AA916771, AW138790, AW590751, AW813050, AA470153, BF513899, AW959548, AI458304, BF432120, AI052501, AW769287, AI968023, BF338740, AI580155, N63052,

Name	No.	ID	Col A	Col B	Accession Numbers
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HBXAT65	1009	881010	1 - 2036	15 - 2050	BF344176, BF338634, AW952341, BF116046, AW294647, AI333224, AI970896, AI565702, AW954899, AW026640, AI363429, AI366047, AI970764, AA019613, BF056618, W77990, AU153722, AI369416, AA996293, AA886797, AA019631, BF449019, W73946, H05223, AA324354, Z44709, T75039, AA258603, F06074, R21310, T30647, AA258549, F07165, AI868234, BF726014, AA364404, F05199, N93994, H16436, AI864418, N54874, AW769672, Z38996, N53983, AI002454, AI568140, F01451, F10318, AU132117, AW898421, AW898423, AK024282, AL049594, AL157413, and AL034426.
HDQDF85	1010	881146	1 - 3203	15 - 3217	BF684575, BG248639, AA876064, BF346246, BE542721, AL134841, AW300940, AI475557, BE258580, AW967698, AA743018, BE266406, AI148542, BF985174, AI096921, AA877859, AW247131, AI760839, AI769927, AW469955, AI741057, BF345270, H05902, AW189409, AA292621, AI571984, AA662809, AI420935, AA258253, AI342139, F11800, AA614834, AA454726, AA609413, AA259099, BG007234, H17910, AA523889, BF062616, AI362897, AA419061, AA626687, AA164881, AA251790, AA333503, T10179, AW082517, AA586817, R39900, T07261, AI401331, R44745, AW193941, R56170, AW167262, R02386, R56058, R46137, AA419088, AI311641, AW188616, R13605, R91338, BE173817, AA857438, Z43437, F11017, AA454777, BG057202, R44375, AI424655, R24570, BE882759, AW189013, R21035, BE855859, AA912008, T10178, AA321087, AI075726, AW883652, AI880042, AW964576, T65601, F11321, AA883716, F08982, R11265, AW362253, BE884357, AA341528, BF509882, BE392328, AW855506, AI472816, AW572607, AW362295, AW269705, AW275138, AW051812, AW956424, AA376431, BE828158, AB002307, AF143946, and AK025382.
HRAAA79	1011	881197	1 - 546	15 - 560	AA463356, AW939129, BF513406, BE869503, AA453500, H24259, BF028435, AW997262, R19782, BE833726, and AB023227.
HEOQC11	1012	881219	1 - 2772	15 - 2786	BE379483, BG253105, BF036364, BG117921, BE872989, BG122284, BE908158,

HJKTA08	1013	881310	1 - 2024	15 - 2038	
					BG029103, BE393512, AI924972, BG025424, AW886543, BE903765, AW963659, BF869521, BE676310, BG252510, BE613638, AW601911, BF026258, AL046288, BF816050, AW601984, BF815873, AW886554, BE273287, BF206524, BE858034, AW189048, W89124, AU154847, AW750155, BF924333, AI091620, BE789523, AU150426, AA492579, AA588728, BE874322, BF807649, AI439428, AA449355, BF807659, AA634228, BF307499, AI146362, BE743794, AA043859, BF087409, AA581516, AA507328, AI469226, BF818901, BE937846, AA146720, BF198086, BF739072, AI056656, AA765659, N64539, AL046287, AW402025, AA312475, BE542739, BE843305, AI457992, BF766510, BF878234, AW005493, AA292416, AA449614, BF926645, AU128111, AA742592, AA465004, BF510887, AA405756, BF873953, BG014341, BF935056, AA078819, BE174657, AA613822, N64732, BG014370, AW603239, AV750762, AA405775, AA196964, AA367635, AA373433, W88918, BF876476, AA504065, AA652295, BG014324, BF878225, N91745, T79620, AA996002, F25128, AI364464, BF931158, AW977542, BF998898, AA515314, AA394253, AA078918, AI909748, BF993832, AA455284, N80334, BF878226, AL044772, AA377702, AA742682, BE614350, BF875029, AW593565, BE549394, AI583136, BE512844, AI907986, AI909746, BE938357, BF819427, BE168048, AA146721, T79705, AI798856, AW177744, BE140559, BF880020, AA037697, H55648, AA767252, AA810554, AA814521, BF899598, BF758045, AI675619, BF758316, BF871918, BE254219, BE928634, BF757567, BF819757, BF815545, AI872260, BF876853, BF934770, AW370721, R32993, D78805, D78848, AW078800, AW082532, AW020164, AI245304, AI688854, AK02241, AK022886, AL096741, AC004882, AC005529, and Z82171.
				15 - 2038	AL521538, AU125521, BF793744, BG258951, AU129772, BG256358, AW134800, BE796240, BE253092, BE539282, BF822222, BE676509, AI884675, AI356274, AU159541, AI922366, BE676139, BF154835, AA522887, AI983195, AI652380, AA614362, AW193792, AI093421, AA236204, BE939312, AW474923, BE675234, AA131740, AL045292, BF478117, AU149161, AA781085, BE674720, AI417244, AW514745, AI093127, AA131671, AI276637, BE252897, AW590126, AI289900, W28544, AA775698, AW205128, AW513803, BE257415, BF589820, AA559118, AW571703, AI570252, W56287, AW379958, AW379963, BF746091, AW150930, AI873877, AI873584, AI813283, BE939111, AA256931, AW379959, W20295, W01952, BF592912, AW630205, AI367701, BF813651, BF940400, BF350176, AI689423, AW510386, AW615008, BF955736, AI813544, AA808752, AI638124, N23992, AW803181, AW379950, R61350, AW664515, BE166559, AW118104, H95563, R98051, R98291, AW379953, Z44598, BF883900, N31893, AI032934, BF590870, AA255440, AI191311, AW080110, AW135533, BF350175, BE815693, N74127, H75780, BF806805,
	1013	881310	1 - 2024		

HFPAD41	1014	881359	1 - 435	15 - 449	AA765360, AW207573, Z40471, BF376312, AI784599, AA775773, AA193577, AI933593, H75919, F27380, N36713, AA356015, AI191092, N90675, BE815761, H70361, T98923, T98966, BF900264, C17503, BF892700, BF739337, BF847746, AA236205, BF129814, H70360, BF829897, BF903297, BF901728, AW365688, BF377679, AB023221, AK024505, AK022684, and AL117517.
HPJCS44	1015	881430	1 - 681	15 - 695	BE258362, AA628882, BE870683, AA323413, AK025981, and AC024075. AW410782, BF792459, AW955940, AV726411, BF432662, BE857492, AI972565, AI056672, AA778523, AA037311, BF978843, W60863, BE542390, AI187168, AI245984, W60939, W37918, AI188420, AA074597, AI268441, BE314839, AA993519, AII83543, AA843776, AW084631, N29524, AA702338, AA039291, AA972616, AA781128, BE879181, AW083425, AI142041, AI936728, AI093442, BF755258, AV709792, AI140965, AI283866, AI016054, AI022728, BF727374, AV708660, AA191566, H20768, AI474142, AV725455, BF977645, AA732825, AI022724, AI201817, AI597728, AI880711, W74479, AI214595, H46202, AI274386, AA099106, AA082527, F24267, W32025, W37876, H41388, AA399271, AA748616, F37025, AI492615, AA169592, AA570212, W93530, AI004909, AA039346, AV713180, AA931071, AI936327, AA412242, AI039454, AI937220, AA393576, AA631596, AA191042, W21111, AA171620, AA471092, F20455, H46201, BF804561, AA099662, AW024785, AA397522, F26118, H40042, AI079167, AI744316, BE168709, H22583, AW969986, AI089850, AA336564, AA039531, AA074588, R11464, W35280, AW083344, H39640, AW572614, AI364041, AI870076, N92905, AA336799, H93751, W31483, R06172, H40066, AA375644, AA075264, R24250, W23700, D59290, AI369962, AA878296, AA814448, AW189383, R06070, AA972872, W32815, AA687569, AA903674, H30376, AA039530, AA094633, AA336940, BG231432, BG05617, BG150940, AL534991, AI879443, R19365, AL080092, AX013073, AC021016, AL008629, AB033010, and Z56173.
HTAIV82	1016	881434	1 - 567	15 - 581	BF359265, and AC018644.
HACBW10	1017	881438	1 - 2139	15 - 2153	BE740110, BE614199, BG036606, BF794271, BE613968, BF339038, BF342453, BF032766, AU136216, BG179790, BF968635, BE387671, AL038560, BF663954, BE885970, BE904104, AL135459, AI436201, AW953307, H06465, BE383320, AU158350, AI571292, AI554757, AA833753, BG254361, AI096785, AW007492, BF434626, AW089504, AI564422, BF058524, BF435000, AI089681, AA617824, AI885122, BF440008, AW964852, AI362817, BE855624, AI356360, AI221373, H10224, AI073914, AA166886, AW366102, H05556, BE888184, AA676650, AI934653, AW296155, AA872203, H10972, H10973, AI492601, AII25539, AI799298, AI498933, AI061152, T15503, AA45860I, AA872209, AU156575, R61036, T17436, T33613, AA569366, N28604, AI498749, AI872252, AA279193, M85530, AI916485, Z39785, T17456, AW005804, AL135454, AA452779, AA279199, Z43723, Z44967, AA011623,

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HUFBN79	1018	881443	1 - 841	15 - 855	F03929, AA864353, R15053, AA737685, F06742, AW207302, AA016231, AA452597, F03006, H05094, BG024484, BF091804, AL041610, Z41569, T30470, T33612, AA971792, R60917, W22888, AA634464, H22893, T85832, Z44975, AI364739, AI886876, R68361, AA593613, Z42662, AI468715, T90946, T03431, F03936, Z38824, H10280, AW292730, AA531008, BF091800, AI630936, AA011624, AW021870, T31134, AL042719, T16989, AA026059, BF248005, AW837834, AA922189, AV696791, AV701983, AW949795, AV703593, AW955686, AV703222, AV648263, AV652027, AV708723, AV729263, AV726520, AV690768, AV652617, AI557254, AV726619, AV684075, AV703159, AV708622, AV726058, AV708961, AV696106, AW951263, AI689111, AV728157, AV692345, AW953872, AV708893, AV686083, AV659536, AV706219, AW959837, AV707541, AW952422, AV704637, AW952409, AV726624, AV709604, AW954113, AV708004, AV704955, AV652156, AV701707, AV728360, AV727799, AV705693, AV726784, AV708704, AV702427, AW959800, AW953515, AV702932, AV654030, AW952400, AV725617, AV697498, AV728270, AV709256, AV727807, AV726951, AV658332, AV703456, AV728455, AV725991, AV650283, AV650591, AV650691, AV725745, AV683994, AV650768, AV696866, AV687946, AV706279, AV728436, AW952183, AW954384, AV704042, AV697288, AW953787, AW960326, AW959910, AV709407, AW955012, AW959991, AW956384, AV656903, AV661704, AV697196, AV709587, AV659389, AV655280, AV659294, AV727787, AV686060, AV686064, AV660608, AV659322, AV726156, AV654908, AV698545, AV656478, AV683272, AW951618, AV708834, AV709314, AV708381, D87452, AF217994, Y11505, S68736, A91160, AX047063, A84916, and Y08991. AW973329, AW009523, AI889430, AW962430, AI738681, AA777585, BE937139, AI148315, AA316389, H46384, N59780, AW074190, AI040187, AW961240, AW955741, AA555061, N38810, AW205276, AW591603, AW262608, H28204, AA877684, AW2272559, BF331766, H48174, AW130846, BF880021, AA326799, C02557, AW004767, BF333513, BE073479, R01004, BF379202, AW001128, BE164371, AW748729, N45441, AI668923, AA366208, BF840169, T99197, AK000409, and AF119884.
HCFCN07	1019	881450	1 - 1193	15 - 1207	AL528858, BE563118, BE618260, BF062004, AI948496, AW956772, BE873416, BF337652, BG119576, AI632017, AW337120, AW514979, AI769937, AW576956, AW073564, BE501678, AA716674, AW151678, AI675915, AW440597, AW439081, AA635630, BF339544, AI021957, T89118, AA922428, W79669, AV711994, AI146673, AI150788, AA480505, AA227693, AA227676, AW731897, AA531425, AV741311, BF331855, AA262822, W01192, AI393050, N32689, AW958904, AW954092, AI750137, N81110, AA632822, AA962088, AA912464, AW576950, BE771047, AA449555, AA527708, BG035620, AW582590, AA641605, BE464403, BF838128, AW610549, AI203728, H43962, BG057162, T89207, AA384355, F09351, BF830478, N42656,

HLWDZ66	1020	881490	1 - 880	15 - 894	AA353461, H43963, AA304927, AL530046, AA653574, AA469257, F11691, AA384281, AI825709, AA236953, BE771051, T59024, W74169, BF574249, AA156909, N31860, BG120180, W69603, AW615667, AW996173, AI672113, AI475081, N48371, R06017, BF837097, BF681192, W92848, T59099, AI270106, AA815439, AW291193, BE089692, AA831220, AI217844, AA781532, AI268834, AI023965, AA953550, W24031, AI240967, AW605655, AI806236, AW873478, AI619512, AW779424, W24259, AW772375, AI001999, AI827606, AI677730, W31758, W78992, N40651, AW954182, AF132733, AL049944, AF129927, AC036103, and T98083.
HEONP58	1021	881498	1 - 611	15 - 625	BE869339, BE874350, AV649008, AA446693, AW992782, AA449142, Z45275, AU132020, BF241714, AV648920, H06908, AL138309, AA173638, AV648696, BF690788, AW607264, BF959303, AU132889, AB011100, and AC053513.
HMAGNI 9	1022	881531	1 - 1888	15 - 1902	AI573144, BF310612, AI289200, AL523370, BF206642, BE263288, BE260193, AD44184, AA806849, BF436307, AI193797, BE397874, BF058254, BF330701, AW820218, AW609612, BE386938, BF312852, AW068762, BF967177, BG179208, BE612391, AW379978, BE792210, BE260100, M63005, M63480, and M63544.
HFCAP42	1023	881569	1 - 1603	15 - 1617	BF337564, BE383862, BG109450, BE620636, BF026125, AW602460, AW602469, AW577721, AW602456, AW602495, AW577725, AW577724, AW577730, BE073803, AW577723, AI935269, BF978294, BE387764, AW393741, AI554727, BF954781, BE391357, BE387938, BE073809, BE408267, AW577936, AI934780, AA532444, BE073814, BG163219, AW752866, BF942048, AA007355, AW577937, BF331556, BF691827, BE302779, BF834807, AW614020, AW577929, BG117998, AW393760, AI865671, AA328834, AW750184, BE073812, AW083480, AW750507, AA576539, AW577938, BE073815, BG104388, AA069307, N28611, AW593736, BF942387, BE207564, AA975612, AA007354, BF989784, AW470660, BE391682, AW292203, AA677613, F17262, AW602467, BF942263, BF221918, BE408642, AA369174, BE563781, BF811624, AA339038, AA974293, AI829240, AI361968, BE277321, BF432131, BE857481, BE729534, AI424193, AW337629, AI829535, AA065030, AW953866, AW957069, AW953861, BG118833, R29160, AW581406, AW577713, BF726777, AW608494, BG260813, BE409442, BE620402, AF151100, AX017292, and AF151099.
HWBBT49	1024	881570	1 - 1482	15 - 1496	BE154994, BG117690, R98131, BG164212, U46357, AA625502, AA312886, BF803350, AB037784, AC007919, and AC007051.
HDPBT62	1025	881683	1 - 460	15 - 474	AA459557, BF379284, BG177419, AF215666, and AF006466.
HDTIT02	1026	881693	1 - 762	15 - 776	AW953511, AV713133, AL533549, AI151271, BF680161, BE567704, AW024992, AI870840, BF792700, AI880451, AA908906, AA772305, AI887674, AL533508,

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HWHHS59	1027	881714	1 - 710	15 - 724	AL520479, BF969872, AL529639, AL528965, BE733103, BF315512, BE896377, BF347695, BG179113, BF340204, BF913055, BF726952, BE247601, AA078212, AI081542, BE303038, BE276637, AK024482, and AC012351.
HJPCP29	1028	881766	1 - 2217	15 - 2231	AL525037, BF981660, BF038648, BF342088, BF685192, BG248652, BE798260, BE904021, BE869370, BE786013, AW246414, BE871597, AW246657, AI819396, AI684664, AW474451, BE790337, BE502853, AI224933, BF316425, AA857894, BF590803, BE551214, BF515606, BF431266, AI017549, BE671006, BE300752, AA411548, AA401323, AI769337, AI017976, AW161307, AW190690, AA603749, AA460776, W78041, AI354360, AI498969, AA460347, H06972, T09106, N57956, BG118868, AA642968, AA024573, AA729823, C15623, D60461, N94972, AA758511, AV704595, BE383359, AA024574, AI927462, AA403032, AW117427, BF828303, AII98324, AA972802, AA888960, R15775, D20809, AA603748, D80699, AW963491, T34850, BF155054, AI923958, R16281, BF155087, AF136581, BF155058, D60460, BF155086, BF941705, R60043, AA758533, D80479, H06971, W23881, R60105, R56605, T12595, BG113055, AW950223, AV728874, AV694674, AV703687, AW959848,

HHEBM09	1029	881890	1 - 2019	15 - 2033	AV706734, AV708091, AV726505, AV654282, AW961270, AW956075, AV727822, AV704847, AV729131, AW956199, AV727103, AV704592, AV702861, AV704551, AV645545, AW949764, AW950443, AV707979, AV706532, AV726694, AV701180, AV705208, AV694836, AV707656, AW952183, AW961383, AV656903, AV661704, AV697196, AV709587, AV705135, AV650315, AV659389, AV727613, AW953797, AV655280, AW956474, AV727787, AV659294, AV725745, AV686060, AV660608, AV686064, AV726156, AV659322, AV654908, AV726590, AV656478, AV698545, AV709314, AV708381, AV660728, AV656240, AV691080, AV702385, AV709909, AV652001, AV651955, AV702516, AV726194, AV727003, AV709580, AV726103, AV701538, AV659547, AV727526, AV703169, AV728518, AV725033, AV728924, AV725617, AV696931, AV699089, AV701874, AV703501, AV709660, AV654035, AV709935, AV707654, AV683994, AV706854, AV704042, AV729220, AV687035, AV697498, AV727238, AV686420, AV682997, AV696866, AV727126, AV728652, AV726681, AV655890, AV728997, AV686390, AV656256, AV686417, AV687176, AV698429, AV726816, AV725920, AV692972, AV694871, AV727459, AW954248, AV685688, AV689800, AV693005, AV725054, AV687909, AV695545, AV703762, AV702854, AV656283, AV704234, AV708025, AV684604, AV707933, AV729378, AV708980, AV692691, AV701914, AV705159, AV649758, AV728270, AV702832, AV709256, AV693523, AV709407, AV701496, AV727929, AV708992, AV727807, AV705811, AV703456, AV727032, AV727029, AV725001, AV707510, AV727221, AV725956, AV728733, AV725826, AV728471, AV728985, AV708438, AV725134, AV705280, AV728436, AW951239, AV702789, AV655669, AW954697, AW959521, AW954211, AV653353, AV706527, AV728721, AB030189, Y17456, Y17455, AX047063, AR050070, and AF217994.
HDPIV17	1030	881907	1 - 805	15 - 819	BE550121, BE550881, AW978299, AA456815, AI016711, H17272, AA973867, AA807104, AW070411, AI801578, AA871995, AI214534, AI827031, AA620701, AW591994, AA578764, H09747, AA234676, BF662989, AW892114, AA235336, H17273, AW135819, H10879, R60963, AA813434, R41826, T83087, AA365780, R88233, W23270, H10837, T81134, T81086, R61630, T90551, R88232, BF944317, H12924, N73837, W00880, AA321783, AW382527, Z99714, and AL161993.
HBGNO49	1031	881968	1 - 551	15 - 565	AW194366, AW168461, AW168460, AA582260, AI270766, AI609321, H03116, AI014657, AA155614, BE241450, BF718676, AA078843, N28719, AA102492, BF983729, AA052893, AA101020, Z25175, BG113833, H25463, AW406211, AA292172, BF663546, T84848, BE271158, W07816, AA985274, R50289, BE241528, AA296841, AA424970, AA308772, AA516434, BE273260, BE301829, AA400177, BE251580, AI868512,

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HWAFQ40	1032	882003	1 - 548	15 - 562	AA292293, AI417145, AI052002, AI399688, BF940742, AI804652, BF434698, BE674681, AI692887, BFI26043, BF435114, AI692862, BE563793, AW976577, AI797237, AW024378, AI218747, AI682382, AW969124, AI660374, AI421955, BE563604, BF727404, AI052043, BF002326, AI078829, AI081925, AW303349, AI079891, AI201317, AA280612, AI911322, AI014708, AI424419, AI379672, AI220001, AI243680, AW149840, BE792270, AI239775, BF438082, AW340701, AA825606, AI949421, AW172372, AA287874, AA767433, BF940637, AA811865, AI494495, BF940305, AI399870, AA830452, AI815486, BE314632, AA236913, AI568914, BF310470, BE262681, W37474, AII93910, BE562193, AI084588, BF206322, AA743828, AI669558, AA815099, AA258200, AA825748, W44803, AA807434, AI672892, AA832087, AA732158, AI767075, AA721077, AA808663, AA732159, AI084287, AA905024, AA461042, AA461089, AI200625, AI220239, BE268270, AA282224, AW188602, AA430366, AI805926, AA806183, AA282216, AA836088, AA811760, AA905197, AI611305, AA743766, H97411, AA743765, AA808040, AA197166, and BE274116.
HTLGZ03	1033	882014	1 - 2631	15 - 2645	AL529222, AI654857, AI651405, AI660075, AI431898, AI921808, AI672616, AA947309, AW575034, AI624730, AI631881, AI624728, BF983806, BF594215, AI570936, W07754, AI460327, BE798665, AI025529, AA620869, C17310, C16874, R46681, H26800, AI491709, AA806378, AI623325, H45081, AI917017, BF895967, BF091262, T40637, AI350516, AW236839, AA310232, AA768926, AL529223, BG009720, BE646092, BF594777, BE621379, AW176705, BF795359, AA650038, BG012781, N24032, AI201217, AW197267, R46682, AW016207, BF851617, N80693, AI631550, AI992313, BG150450, N35426, BF375280, F35365, H14527, BE829348, AW372130, BG005101, AA948504, BF747812, AI825439, BF511851, AA720646, BF741419, BF848728, BG009905, AV704306, BF759416, AA206102, BF878062, BF739332, AF053356, and AR016407.
HLYCX18	1034	882016	1 - 582	15 - 596	N28696, N23033, AI417970, AI379543, and AI288223.
HSDEK82	1035	882064	1 - 489	15 - 503	AL532638, BE514802, AV726836, BE742339, AI739570, AA298803, R16034, R16035, AV722117, H30310, Z42004, AA302987, BE735910, BE563252, BF342113, AF137386, and AL020989.
HCEMU86	1036	882164	1 - 2506	15 - 2520	AL525387, BE250477, BE266966, BE875768, BF342026, BF345633, BG028087, BE250624, BE793426, BE272606, BE265171, AW956920, BE313236, BE250545,

HKAEF60	1037	882197	1 - 1447	15 - 1461		
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HKGBI74	1039	882285	1 - 1505	15 - 1519	E07361, A93016, X84990, AL117585, AK026592, AF113019, AK000445, AF146568, AL049464, AF130066, AF113699, AK025958, AK000618, AF219137, AL096744, X63574, AK026608, AF119909, AL133557, Y16645, AL359618, AK026045, AK025491, AF158248, AB019565, AK026855, AL122123, AL137550, AL110225, A65341, AK026353, AK000137, AX006092, AL117394, AF119899, AL133093, AJ238278, AK026583, AF130099, AF314091, AK027096, AK026480, AK026532, AK026452, AK000212, AK000652, E03348, AF017437, AB051158, AF225424, AK025092, AF017152, AL133560, AF116649, AL080137, A08910, AL050277, Y11254, AJ000937, AK000432, AF125948, AK026744, AF242189, AL389982, AF091084, AK026504, AL117583, AB048954, E07108, AK026534, AL050138, AL359941, AK026533, AK027113, X82434, E02349, AL353940, AL049300, AF177336, AB047904, AK025772, AB052191, AK025391, AL050024, AL137283, AL049430, AK026959, AF130077, AK024524, AL121656, AF097996, AF119871, AF130110, AK027164, AF079765, AF116682, X72889, AL049382, U00763, AX026824, AX026823, A58524, A58523, I33392, AK026927, AK000323, AK000647, X70685, AK027204, AK000614, AK025967, AB050510, A08909, M30514, AF175983, AL122098, I03321, AB034701, AL137271, AK026947, AF183393, AB049892, AK026086, Z82022, AK025414, A08912, AF116610, AL137538, AB052200, AL137521, AL137463, AL122110, and AA412253.
HOSPA48	1040	882296	1 - 1434	15 - 1448	AI948463, AA418644, AI949922, AI768115, AA284110, AA772347, AA845494, AA418546, AI275388, AW152307, AI378219, AI034454, W46849, AI242477, AA132260, AA844126, AI278292, AI123511, BF765757, BF762049, AI042424, BF432166, and BE814583.
HWHQN16	1041	882307	1 - 1868	15 - 1882	BE903053, BF974033, BE737271, BF725307, AI660289, AW170480, BE385904, BE872320, BE880578, BE389504, BE612935, AW025104, BE735708, N32029, BE735713, BE612487, AI554626, AW965442, AI824083, AA147069, BG121402, AI858522, AI207807, AI887529, AI888792, AA579614, AI880550, AW440599, BE620230, AW778790, AW026319, BE855617, AW274229, AW996250, AI148845, BF737363, BE045805, AII29536, BF739048, AI925547, AI887385, BG236131, BF737027, BF737029, AA740914, BE872552, BF106166, AW275948, AW770443, AV706006, AI203703, BE962001, AA132937, AII85318, AII49136, AI560703, AI744227, BE563094, AW473333, AA862418, BF925610, AI609931, AI086963, BF683071, BE327960, AI148573, AA570313, AI268499, AI459579, BG023794, AII88659, BE396045, AA085909, AA146728, AI669346, AW514379, AW589530, BF752888, BF002743, N34497, BF184179, AI267868, AI798532, N33057, AV752810, AA668732, BF881295, AA024815, BG006947, AA424525, AI983399, AW604945, BF769006, N70951,

HRDEP41	1042	882351	1 - 486	15 - 500	BF99871, W48757, AA031973, AW029030, AV746980, AI610665, F19059, AI439842, AA582790, AI659024, H03542, N39756, AA653978, AA835248, AA428935, R80492, AA053392, AI538822, AI367123, BE875525, C01306, AA410888, AA024921, BE391557, BE898309, T35300, AW814684, AW843952, R76632, BF111359, AI364143, R64065, N57738, AI160933, BG057886, N29711, AA129251, AW001047, N64442, R80386, AI985350, AA586936, AI493350, R49212, AA429150, BE708764, BG006954, AA545787, F36763, F27298, R99313, AI864039, AI828569, BG007498, N42238, R66441, BG113542, H05965, AW998478, F10028, AI589434, AI678543, T63351, R89248, AA258537, AW189822, AW374958, BG013459, H50118, H56131, AA428846, BF830341, H78393, N47780, BE899624, BG260089, H20303, AA862162, AA835289, N42121, AA987839, F16923, BF182642, AI630128, AA916598, AI027539, AA485293, H03457, AA861978, AW374952, BF669533, BE743025, BE907735, BF371399, AA133081, AI247369, AA332717, T63674, AW304395, AI269017, BF917083, Z39206, AI205614, AI648477, BG054640, R98830, AW080905, AI220733, AI246902, AI364157, D29582, AI383332, AI824792, T33304, BF982797, AI381325, AI500036, BF930572, R89247, BF380586, BE183468, BE777643, BE001144, BE001205, N26313, AI906939, AV656472, AA341633, AA485292, AI002608, H48284, H64163, AA370669, AI748867, AA442663, AA424376, R59159, H93783, BE964596, AA897330, C75425, H48408, BE504326, H64115, AA530937, BE899512, AA350228, AA599559, H06014, AR062278, AC021016, AX017484, H20987, AA489657, and C75611.
HFVIK60	1043	882352	1 - 1047	15 - 1061	BF528001, BF109385, AA324953, BE384247, BE389133, and BE743456.
HTJAC60	1044	882355	1 - 1315	15 - 1329	BE560063, BE268305, AW607831, AW607830, BF528121, BE795653, BF931304, R49759, AC006329, AJ245738, and AF124427.
HMAIH15	1045	882500	1 - 1528	15 - 1542	AL522284, AL522283, AL522282, AL530766, AL516443, BE896237, BF527253, AI444603, BE905679, AW363180, AW274515, AA442374, AI928433, AI806931, AI092561, AA628013, AI184518, AW387082, AW262020, AA729980, W35309, W92109, AW340561, AI436261, AA659720, AI803297, BF155792, AI802763, AA527556, BE813043, AW593087, AI186442, R77144, H27628, AA953344, N39838, H44089, H00226, W91980, AI799506, R73264, AI831001, R54966, F24469, AI934101, Z38258, AW451099, AW956287, AI028279, R54777, AA649995, T35406, F35703, W23709, R71423, AA548429, R77145, BE094602, AI940309, and AC006330.
HITDZ74	1046	882514	1 - 604	15 - 618	AL046705, BF805258, BF447783, BF512392, AK024416, AF055084, and AB014586.
HUSGC38	1047	882527	1 - 1768	15 - 1782	BG253939, BG104999, BF792527, BE867371, BG104768, BG105488, BE907153, BG261040, AW410417, BE890543, BF683867, BE872122, BE256163, BF816997, BF980885, AV692428, BE155885, BE872334, AV661759, BG108496, AV661774, BF309102, AI984229, BE549071, AW467342, AW304765, AW731712, AF169958,

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HLHAN77	1048	882559	1 - 658	15 - 672	AA359175, BE832983, AW303295, BG011612, and AF279144.
HFPKI70	1049	882564	1 - 792	15 - 806	BF329593, BF329589, BF329592, AW901804, AA488312, BG168163, BF245596, BF370578, AK000154, and AC005870.
HDRMD17	1050	882582	1 - 509	15 - 523	AA323772, T05374, and AF184921.
HEMDM16	1051	882648	1 - 748	15 - 762	BF972936, BG027591, BE729905, AW160967, AA211700, BF037732, BF037256, BE407268, BE797513, AI341467, AI279873, AW963125, BE391249, AV708486, AW161216, AA428676, AV701828, AW303833, N39835, AI815782, AI608966, AI815401, H09215, AW162570, AW161752, BE618011, BE618567, AI357796, F08612, AA053621, AW879350, BE066310, BE279619, AI309740, AI081095, AA359671, BE066572, AI866956, N26682, AA428187, AI083998, AI083946, AA431956, AA928901, H09158, AL031722, and AB041600.
HODGL52	1052	882663	1 - 1187	15 - 1201	AL525334, BF570227, AL525290, BF569253, AL519725, AA152027, AL519724, BE547726, BE899555, BG122326, BE274160, BF665062, BF978637, BG253307, BE881665, BG024050, AI858573, BE275351, BE385877, BE875567, BF037644, BE782705, BF681176, BF679407, BE048164, BG178862, AA152101, BE878922, AA872929, BF977711, T65558, BF033946, BF210760, T65625, AI935280, BF726967, AI857440, BE709569, AI806259, AA448606, AI802978, AW439396, AI088384, AI167984, AA122077, AW571878, AI079195, BE220603, AW084666, AW168968, N31228, AA612986, W58232, AA857749, W58321, F12021, AA026941, AI362267, AI741916, N26488, AI042091, AI240880, AW170483, AI368222, AI362298, AI936087, AI423537, N21293, AA699436, AI347040, AA835525, AW952600, R73924, AI308774, T93931, AA649894, AI359313, BF904576, F33942, W87299, AA857940, N25481, R86323, AA336522, W19370, AI424002, AI085418, AA318200, AW392447, W58167, AI364285, AA300524, AA777370, N35539, AI921547, AI863300, N75591, AI554631

HSLGA24	1053	882690	1 - 759	15 - 773	AI695142, H72251, AA551499, AA512961, AW392454, AA532617, AA887904, BF917784, F09668, AI972572, W87436, AA493704, BF869008, AI582228, AA122076, AW076044, AA876794, BF000749, BF680549, and AF165187.
HMHBT84	1054	882784	1 - 934	15 - 948	BE548954, BE292730, BE545268, AA478086, BE545787, W17267, AW068025, AW801618, BE242712, BE242609, BE745101, BE745120, U52870, T35951, T35949, AA381001, AA381111, BE243322, F12018, T74373, ZA5645, AW962144, AA309821, R05679, AA090647, BE545826, N78860, AA359844, AW370596, and R17501.
HHEDW60	1055	882799	1 - 771	15 - 785	AI589203, AI672363, AI631066, AI810806, AL526382, BE223017, AW516543, AL526418, BF439775, AI654696, AA700425, AW249815, AI581871, AI271343, AI127886, AW044228, AI769068, AA188637, AI240526, AI142895, AA084919, AA451876, AI293448, AA074549, AI351007, AA482390, D20750, AA463624, AW090810, BG236022, AI143138, BF110489, AI762690, BF105136, AI752042, AI127226, AI912224, AA626231, AV736041, R56145, AL526706, AI336960, AI962785, AI690749, AA035626, BF738182, AW139485, AI762681, AA847532, AA426415, AI625813, AW856202, AI940415, BF915385, AA062842, AA599682, BF755060, AW374890, BE905270, BE464447, BF883361, BF738076, AI659071, BG109861, BG260622, AA953644, BG026484, BF343118, BG178754, BE875004, BF338495, BF338479, BF946550, BE881519, BE886648, AW025168, BG255146, BE878170, BE870547, BF528358, BG107033, BE540247, BF343613, BE881600, BG178761, BF969312, BE879306, BE910347, BF337962, AL357472, AF201694, AF308803, U35245, AL158206, and AI341435.
HNGNU93	1056	882805	1 - 839	15 - 853	BE504107, BF000553, AW629345, AW515639, AW274021, BE219751, AI808035, N53667, AA129710, BE964325, AI185668, W73671, BE744137, AW242065, AW571901, AA884894, AW612719, AI092687, AI949723, AW014984, AI808036, AA693604, W56523, AI393252, BF434501, AI340027, AW341806, BF056952, AI218938, AI022045, AW301286, AI039071, AI808859, AI949271, AI932541, AW014415, BF221606, W73623, AA489394, AA725874, W56587, AA342548, R02181, BF839205, AA733025, AW517830, AI017031, BF001499, AA279068, AA804595, AW960404, BE466157, AV721907, AA664956, T93900, N73032, BF091798, AI916642, BF970939, AA404545, H68702, AW242977, AU131256, AI766502, BF130696, AI370338, H46903, AW582396, AA089818, T12052, BF132948, AI581389, AA357318, AA328992, BF085220, BE764751, AA316087, BE706349, BE706344, H53517, H45572, W85768, H02085, N72447, BF911617, AU153833, AW364955, AW803956, AK023161, AK026217, AK021517, AF161431, AK001540, and AK001752.
HARMS29	1057	882813	1 - 649	15 - 663	BF197708, AI421722, AW450481, N46441, AA301550, AI908682, and AC007879.
HAMHH2	1058	882839	1 - 2048	15 - 2062	BE886340, BG261027, BE613248, BF343091, BE612795, BE881056, BE545037,

BE546926, AW291388, AI765134, AW007665, AI377415, AI312034, AII39126, AW294971, AI804004, BE348593, BE549965, AI298970, BG110270, BF743165, BF746037, AI609334, BE871297, AI453049, AW662334, AII87035, AI003382, N63646, BF743171, AA987476, AW769867, AA617871, AA278618, AW088114, AA652435, BG010682, BF765752, AI590008, AA688365, AI620777, BF935707, AA576793, AA934403, AW085080, AW407039, AW204196, W31287, W05360, R71903, AI215461, AA628850, BF746031, BF686406, T77456, R68858, T77242, AW183702, BF346834, R68764, AA490733, R71939, AW025913, T70873, BF055186, BE003757, AI439436, AW088952, AW956400, BE073330, AI886100, AA340298, BE073212, BE073282, AA281918, BF090926, AA931545, BF203846, BF205373, AW879014, AW882722, BF112178, AW394035, C02040, AA836053, BE382886, BF311601, BF743178, AI669597, AI432644, AI623302, AI431307, AI431316, AI432653, AW081103, AI432666, AI432650, AI431238, AI432654, BE672759, AI431321, AW968355, AI431323, BG249858, AI431315, AI872423, AL047611, AA514684, BG028055, BF726322, BF338027, AI432677, AL514563, BF811804, BF337604, BG028216, AI431246, BE897632, BF726297, AI538850, BF726234, BE539580, BE782316, AI866786, BF345716, AI924051, AL042729, AW151132, BF528721, BE875644, BG167830, AI866458, AI590043, AI610411, AI537677, AI494201, AI500659, AI866465, AW858522, AI815232, AI801325, AI500523, AI354981, BF034273, AI887775, AI582932, AI923989, AI284517, BE826157, AI500706, AI445237, AI491776, AW151138, AI521560, AI889189, AI500662, AI539800, AW172723, AI284509, AI582912, AI538885, AI440263, AI889168, AI866573, BE883591, AI633493, AI434256, AI866469, AI805769, AI434242, BG106905, AI888661, AI500714, AI284513, AI888118, AI859991, AI436429, AI889147, AI355779, AI623736, AI581033, AI371228, AI285419, AI491710, AI440252, BE782626, AI860003, AI610557, AI242736, AI828574, BE880000, AI887499, BF792586, BE018334, AI539781, AI539707, AI285439, AI559957, AW089557, AI521571, AI469775, AL043089, AI559976, AI440236, AL042853, AI890907, AI355126, AL042931, BE536417, BG104735, BE885490, BF812963, AI567971, BG114012, BG252929, AW193606, AI539771, AL042488, AI815239, AL134524, AL042655, AW151979, BE875419, AI432656, AL045163, BE962698, AI804505, AI866691, BE893692, AX030435, Y17793, AL133049, AL133053, AL122101, AL133076, AR015970, AB047887, AL110296, AX040958, AX040974, U30290, AL133074, X59414, AF218026, E13998, AC002492, AL133084, X99257, AL122049, AF132676, AF061836, AL133655, I33391, AL133070, AF119896, AX041002, AR008521, X69711, AL049423, AL133051, AF119909, AK024978, X86693, AL133113, AK026608, AC004213, AK027217, AK026592, AF217998, AR034821, X55761, AL049382, AL117649, AF130077, AF180525, AR070212, S66283, AF002985, E12888, AL122106, I30339, I30334, and AL133015.

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HLCLA47	1059	882849	1 - 795	15 - 809	AL536471, BE262590, AL524210, BE262591, AA452366, BE161346, BF313719, BE262802, BE906544, BF830183, BE382881, BF372488, BF358549, BF358576, BF358542, BF358541, BF358536, AA074050, BF358552, BF358565, BF358571, BF358562, BF358581, BF358556, BF358560, BF358567, BF814687, BG179981, AA351338, AA389667, BF991369, BF351049, BF851369, BF371060, BF343890, BF337072, AA164949, BE743888, BE907724, BF904506, BF847806, BE746082, BE744431, BF852128, BF358547, BF905620, and AC008753.
HDPSO06	1060	882888	1 - 1946	15 - 1960	AL527984, AL530814, AL533225, AL534127, AL527985, BF568071, BF569927, BE741242, BE876190, BF568912, BG031660, BE907167, BF343904, BG110400, BG253252, BF570412, BF036442, BE905978, BF527576, BE735462, BF317158, AL530813, BE908609, AL046434, BE735670, AA482408, BG170662, BG259364, BE612777, BE737507, AA401893, AA479130, BE538613, AI823985, BF590722, BG260222, BE550007, AI473999, BF432342, BF590383, N25972, AA482554, BG179304, AA291446, AI912448, BE349567, AI811657, BE909505, BE205803, BE312468, AI859093, AI221555, AA632183, AI857796, AI553862, C03033, AI095247, AA069064, BE350830, AW780356, AA429472, AA397534, AI991164, AI263394, AA443482, AI635020, AA419228, AI288148, AA290725, AA614858, AL522526, AI187312, AW196999, BG055237, AI972962, AA722769, AI057622, R83864, H11113, R83863, BE019167, AI205076, AI087173, AV723791, AA780360, AW874620, BE262042, AA290726, BF993447, AI084314, AW192555, BF809612, R46673, AI290461, BE740805, AA435874, AI202510, AA496324, H52744, BF837618, AI299279, N36602, AI537998, AA064640, AA507080, AW303865, AA464054, AI357356, H52789, H89965, R37878, R55447, BG170292, AA496661, AV685113, AA953700, BE538683, AI870425, H11216, BE221580, AA479131, BE304579, AW970380, AW166559, N54655, AW196124, BF941300, AI309989, AW086046, N75127, AW797676, AW949122, AW896128, AW797684, AI279398, AW149889, AI474496, BE870626, AA351507, AI015541, AA503461, AW881717, R31926, BG122435, BF346499, AI384054, AI765209, BE312761, AA460274, H30444, N59000, N52041, AI475050, BE276737, BF808962, N34825, AI623375, AI401371, BF935597, BE261811, AI272144, BF931959, T79932, AI244231, AA069056, BE171521, AI991088, AA419213, N52356, C00786, AV722081, AI873140, AA807832, AA946928, AI865755, AX014144, AL117442, AL121772, and AL353812.
HFXKG51	1061	882935	1 - 1113	15 - 1127	AV702681, AV708440, AV704541, AW960830, AW952013, AV727490, AV706584, AV704853, AW952497, AV709232, AV655669, AV727101, AV706893, AW967328, R29445, AA585101, AV701467, AW951811, AW959986, AW950186, AA585476, AW956292, AW959858, AV746387, AV763444, AV762343, AV709987, AV756755, AV728845, AV701803, AW958796, AV698330, AV690209, AV726887, AW952426, AV727618, AV725255, AW967329, AV725596, AW965148, AV759823, AV726590,

AV732203, AV755445, AV732299, AV732336, AV746382, AV653353, AV732362,
AW950004, AV703425, AW960067, AV702298, AV726103, AV705201, AV729137,
AV730216, AV725375, AV661369, AV730221, AV728965, AV730546, AV660516,
AV704144, AV746424, AV703632, AV730062, AW960579, AV708520, AW954174,
AV730115, AW949777, AV731078, AV732566, AV726194, AV728997, AV708872,
AV709580, Z28355, AW961841, AV728530, AV726337, AV730609, AV725582,
AV708786, AV704626, AV730635, AV725618, AV729424, AW949448, AW957318,
AW963446, AV728743, AV725321, AV753729, AV725031, AV725441, AV705500,
AV699269, AV651897, AV725577, AV743111, AV706223, AV727682, AW955629,
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AW965866, AV701751, AV699203, AV730119, AV699148, AV707420, AV699153,
AV724636, AV741800, AV699200, AV702781, AW962181, AW962217, AV726694,
AV709356, AW955169, AV703214, AW961835, AV699250, AV702164, AV753956,
AV703086, AV740765, AV701858, AV652001, AV706076, AW963948, AV699247,
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AV699147, AV706104, AV702498, AV692714, AV728874, AV706330, AV709326,
AV701783, AV707311, AV647692, AV706718, AW952301, AV709235, AV703417,
AV705234, AV702673, AV707311, AV707640, AV654035, AV685955, AV704376,
AV707649, AV709935, AV704757, AV709075, AV726755, AV658436, AV707654,
AV708083, AV726628, AV709886, AV728901, AV759796, AV728853, AV707020,
AV701704, AV702800, AV655552, AV702671, AV704879, AV707264, AV707322,
AV707589, AV709786, AV729219, AV654282, AV687342, AV708069, AW949494,
AV731373, AV701873, AV709880, AV702851, AV707556, AV701669, AV702625,
AV705239, AV706882, AV708347, AV752043, AV702817, AV727314, AV702954,
AV655067, AV656004, AV697350, AV701320, AV727238, AV682997, AW956304, AV703761,
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AV705267, AV727126, AV704059, AV727562, AV702783, AV727047, AX020190, AR062871,
AV709494, AV706162, AV727562, AJ244005, AR091393, Y16359, AX028305, AX009487,
A25909, AR088705, AR038855, AX026823, D50010, AX001322, Y09813, AR062872, AJ244003,
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AR062873, AR079804, AX006825, AX006826, AX006822, X81969, A85395, A85476,
AX001082, A43188, AX008555, AJ244007, AX021518, AR037157, AF144029, AR070327,
D13509, Z32836, A98432, A98436, A98417, A98427, A98767, AR038762, A93963,
A98420, A98423, AX042372, I05558, I44681, X83865, AX047064, A84772, A70872,
A93964, I63120,

| HE9PQ22 | 1062 | 882969 | 1 - 596 | 15 - 610 | I08396, I08389, A84776, A84775, A84774, A84773, AR054109, AX006821, AR067731, I15718, AR067732, A86792, A58522, A91750, AX035462, AX047063, AR008429, AB025273, I13349, AX011024, A18053, A60212, A60209, A60210, A60211, E03627, I84553, I84554, I48927, AX043922, AR091537, I15717, AR031566, AR096545, A90655, D13316, AX009712, A35536, A35537, AX003207, A02135, A02136, A04663, A04664, A02712, I19525, AR073846, A77094, A77095, M28262, AR080470, AX027636, AR077142, A81878, AX033488, AR069650, I00682, AX033489, AX033490, A95051, I06859, AR095492, AX032992, A18050, AX012337, A23334, A75888, I70384, AX032993, AX033474, AX033486, AX033487, AJ270780, A64973, A60111, A23633, AR007512, AX006823, A11623, A11624, E00609, E13740, A11178, E01007, AX035980, A10361, AF149828, I08395, AR043601, A11245, AR054723, I03331, AX032758, A02710, E12615, AX018504, AR035193, A92133, E14304, A07700, AX027811, AX027809, A13392, A13393, I62368, AR031488, I13521, I52048, A27396, AX027813, AX030369, AX030368, AR069374, AR027100, I49890, I44531, I28266, AR069375, AX042377, AR083151, AX027812, AX027810, AR091518, AX027816, AR072535, AX042375, AX027817, AX027818, AX027814, AR085082, AR085089, AR085091, I21869, AX042373, A91965, I44516, A70040, AR069417, AR085079, E16678, I01995, A82653, AR085083, AR093385, E16636, A95117, AJ230935, AR074365, A93016, A24783, A24782, AR051957, AR095490, AR095491, I25027, A58524, AR069426, A58523, I26929, I44515, I26928, I26930, I26927, AR093392, AR038066, I08051, X55486, A22738, AJ276254, I66498, I66497, I66496, I66486, AJ276256, AX009343, AX009341, AX009337, AX009335, AX009345, AX009342, AX009344, AX009340, AX009339, AX009336, AX009338, AX009334, I60241, I60242, and AR093383. AV760831, AI866899, AW951720, AV762992, AA315095, AI936787, AA314872, AV761937, AI242309, BE857945, AI291913, AW119212, AI493480, AA887923, AW450015, AI015659, BF975929, BF726669, AA923699, AI274047, AI469898, D59808, BE791215, AA961195, R76121, D80319, BF476505, AA747862, D80270, D80355, D80365, AA632550, D80354, D80225, N75294, W04736, D80318, BE537034, BF589150, R76178, AI468824, AW883371, W05238, BF933450, BF360731, AI222560, AW964468, AW966330, AW975618, AW966389, AW949645, AV724520, C14331, D80164, AV699550, AW966053, AW966022, AV718489, AW966041, D59275, AW973541, C14389, AV699927, AW978634, AV720791, D80268, AW949654, AV702035, AW958993, AW978648, AV718692, AW966534, C14429, AW959799, AW949643, AW960465, D59859, AW966054, AW973307, AW949641, AA305578, AW966013, D80195, AW975621, AW966062, AV719783, AW964532, AA514188, D59467, AV719468, AV718800, AW966330, AW962395, AV720464, D81030, AV718681, AW966050, AV719188, AW965158, D80227, AW949633, D59502, AW959597, AW959570, |

| HELEL31 | 1063 | 882980 | 1 - 1534 | 15 - 1548 | AV701004, AW965185, AW965197, AW965175, AW966029, AW973334, D80038, AW966075, AW966065, AW959062, AW964477, AW179020, AV719557, AW966531, AV718440, AV720028, AW973490, D81026, D51423, D58283, AW966059, AW978661, D80022, D80253, D80166, AW973474, AV720812, AW975613, D59619, D80210, AV720878, D51799, AW965163, D80391, AW960553, D80240, AW966399, AV699447, AW966030, AV719822, AV720203, AW964756, D80043, D59787, C15076, AW964488, AV719324, AV718938, AV718633, AW959628, AW960473, AW965177, AW975605, AW965196, AW973485, AV718707, AW965184, AW973488, AW960454, AV720211, AV718931, AV718844, AV718770, AV720731, AW973482, AW958992, AV722801, AV723927, AV699866, AW959136, AW956434, AW962082, AW949656, AW949642, D80269, AW959202, AW959582, D50979, D80024, D80212, D80193, D80196, D80188, D80045, D80219, AV738340, AW949646, AW949658, D59927, D57483, D80366, AW966043, AW964737, D51022, AV701123, D59610, AV720150, D80378, AW177440, D59889, AA305409, AW966400, AW973473, D50995, AW949657, AV720533, AW962245, AW973447, AW973445, AW959469, AW966032, AW973330, AW960532, AW956397, AW949629, AW949653, AW949632, AW949631, AW949618, AW949655, AW966385, AV720616, AW360811, AV742732, C14014, AV723097, AW966333, AW966388, D80248, D80522, AW752082, AV720151, AV718908, AW753053, AW966023, D80251, AV721386, AV744690, AA514186, AV718530, AW966332, D80241, AW960414, AW966380, D51060, D80133, AX047063, A84916, A62298, AR018138, AX047064, A62300, A82595, Y17188, AX047062, AX033851, AR070327, AR016808, Y17187, AR087649, AR008278, AJ132110, AB028859, AX027925, AF058696, AJ302649, AX021518, X67155, D26022, Y12724, AX035434, A25909, AX028130, AX020191, A67220, D89785, A78862, D34614, AX020190, AR060385, X82626, A94995, AB002449, A30438, D88547, AR077702, I50126, I50132, AR008443, AR008277, AR008281, I50128, I50133, Z82022, AR066488, X68127, AR025207, AR016514, AR060138, A45456, A26615, AR052274, AJ294956, AR016691, AR016690, U46128, X64588, I14842, AR074139, A43192, A43190, AR038669, Y09669, AR066490, AR066487, AR054175, AR074136, I18367, AF260572, U79457, I79511, A63261, D50010, AR074545, AB012117, AR091537, AR062872, A70867, AX015396, AR093385, AR008408, AJ287395, A64136, A68321, A85396, AR074141, D88507, AR066482, A44171, AR088705, AX042372, A85477, D13509, I19525, A86792, AR060133, X93549, AF123263, AR060382, AR032065, AR008382, and N74330. BF339213, BG254227, BF529294, BE255012, AW997403, BE302712, BF530121, BF882056, BE546320, BG033361, R17741, AW748480, BE546589, H12648, AA354352, BF987039, Z42704, Z42317, BG167384, AA326060, T30958, BG121307, AA364924, AW601313, AW361978, T31239, M79043, T30448, BE709091, BG117445, F08208, |

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Name	ID	Accession	Col1	Col2	Sequences
					BE717194, T30977, AI733721, BE814092, AI732397, BE780804, BF352049, R21779, BF569711, BF346247, BG015999, BE085541, AW880261, BF569784, H42968, AW880048, AA449923, BG032268, H56003, AA077285, T19389, AL133215, and AF276997.
HTLGQ83	1064	882989	1 - 976	15 - 990	BF342863, BE892684, BE559716, BF205902, BE396822, BE887460, AV704099, BE261135, BE383346, BE890941, BF858987, BF348046, N78200, AL534700, R19749, BF213475, BE890742, BF757765, F11424, BE702524, AA297870, H93814, AW373949, AW629573, AA297097, BF973571, AA297894, BF207197, R22495, AA378520, AA489539, AA365579, AA211194, R34749, AA234650, AA298589, AW747813, AA262065, AA326119, BF346104, BF088368, H63601, AA182490, BE168058, AA287169, AL517245, BF954796, BG015890, H81156, AW964034, AA297318, BF342484, AA297075, AL534699, BE514241, BE709543, BE387719, BF821256, BE410082, AU125754, AI189424, BF034118, BF914644, AA322131, AL522845, AA234499, BF530503, R01880, BE730139, BF087593, AA228456, BF339898, BE174051, AV690581, H14466, C01139, AF099100, AL133589, and AK022719.
HETJU23	1065	883007	1 - 2213	15 - 2227	BF338909, AU125582, AV721101, AW960032, AU149216, AI479301, AA551070, AI765789, AI888129, BF689666, AW300579, AI561067, AI952933, AA699496, BF851750, AW631269, BF223599, AA977132, AW003323, AA227895, BF056547, BF056388, BF851745, AW628961, BF851053, AI499649, AA227595, AA557146, AA005279, BF999437, AII24737, W88953, BE139597, AI866470, BF690562, AW392978, BF849227, BF999431, AA524236, AA992176, AI817652, AI93331, AA005195, BF999425, AI381813, BE221278, F36543, AW087421, AW167326, F30327, BF850865, AA953702, AI242910, AA367411, AI363751, BF834497, BE048256, BE708177, AW379838, Z42044, AI351935, F01568, BG055860, AI691123, BF772332, AI783542, AI131405, W05190, AV702728, AX040389, AX040390, AK022692, AB033104, AL133630, AX040393, and AF200815.
HNGKB25	1066	883012	1 - 541	15 - 555	H53110, and AF213884.
HADAM67	1067	883039	1 - 771	15 - 785	AA487951, BF129128, AV723818, BF570933, AA235941, AV701066, BF917289, AA985393, BF830023, AV753264, AV721380, AA383094, AV724030, R05721, AA031936, BF934693, AV725961, W78702, W01336, BE838100, BF370954, AA322021, BE718020, BF927369, AA034077, R13275, AW517885, H91811, W56236, AB018339, AF043290, AL078582, AF281869, and AF281870.
HDQPJ82	1068	883055	1 - 997	15 - 1011	AL537185, AL525354, AU132795, BF308677, BF795730, BE875008, BE273858, BF343304, BG034828, BE895273, BE907136, BE898028, BG033780, BF569346, BF207179, BF968741, BF130044, BE393228, BF247758, AL525312, BE786444, BE748432, BE909504, BF033227, BE391437, BE386334, BF030142, AW967752, AA130946, BG008756, AI751840, BF247381, BG108027, BE868645,

HHFFX31	1069	883056	1 - 1316	15 - 1330	R97750, H66997, H56555, BG177442, BF685918, BE162511, BE867619, AW404737, AW963553, H89849, H63620, R88507, AA126401, C18974, BF752903, AA477728, W03395, C18458, H87670, AA031612, R51237, AW381075, AW602285, BF570141, AW800137, AA482657, AW402179, BG255825, BE093107, H69980, N91442, AW072085, BF090887, R95696, BF884172, H65907, H93026, BF842658, AI076498, BF980892, AW875455, BF880636, BE748951, BE175287, BE162512, BF766841, BF439631, W81592, BF689378, N47641, AI991269, BG255865, BE925339, N44995, R81473, BF766840, AA477729, R73248, R48697, R52060, BF684200, AA535341, AA411435, AA380705, H44607, AW438789, N45109, AI924960, AK001653, AF151846, AF170907, AL139289, and AF104033.	AL525312, AL525354, AU132795, BF570141, BE867619, AL537185, BF439631, BF685918, BG033780, BE909504, AA477728, BF980892, AI991269, BF684200, AA477729, AA411435, BF569346, BE748951, AI924960, AW968579, BE614788, AU154254, BF247758, BF795730, BG008756, AA126236, AW070362, H93026, N57496, N45109, BF308677, AI637534, BE834350, BE786444, AI954035, AI275222, AI678972, AI613479, AI978735, AI167930, AI811760, AI554778, AW072085, N67811, BE314914, AI538851, AI954043, BE895273, BF343304, AI948439, AI017979, AW967752, N91442, AI143731, AI346996, BE273858, AI262204, BG108027, AW471165, H63620, AI076498, AI457421, BE875008, BE898028, AI281836, R95697, AI570259, AI201683, H66998, BE907136, AA777989, AA778581, AI751841, H87670, H66997, BG034828, N40986, AI587409, C18974, AI219058, AA719048, N49294, AI358136, H65821, R95696, H65907, AW768474, R52060, H90696, BE874069, BF207179, AW193130, R48595, AA661525, BF968741, AI928588, H44607, BE386334, AA031612, AW337339, AW516411, AI564955, AW083600, H69980, AI751840, N44995, R51238, H96238, H63572, AW404737, H69525, H87168, BE833076, AI699827, R97751, H89849, BE391437, N47641, BG255865, BE393228, H70482, AI440439, R48697, AA130831, W81592, H52217, R52061, N53837, H56556, W81597, AA465706, BE162511, R81668, AI625152, BF752903, BF437083, W03395, R88507, H94311, BE868645, R81473, AA535341, R73248, BE833217, BG177442, BF130044, C18458, BG255825, BE748432, BF033227, R97750, AA635780, AW438789, AA130946, AW381075, N69411, AW602285, AA126401, AW800137, BF247381, BE093107, AW402179, AA297939, AA482657, H56555, BF090887, BF030142, AW103423, BF884172, AA031470, BF842658, R51237, BF689378, AW875455, AW997741, BF880636, AW883906, BF125484, BE925339, AW884067, AV661825, AK001653, AF151846, AL139289, AF170907, and AF104033.
HHESF39	1070	883067	1 - 710	15 - 724	BE408172, BE733229, BF800474, BF373063, AF284422, AK024421, AC011895, AK024420, AK024494, and AK024466.	
HTLHB93	1071	883085	1 - 362	15 - 376	AI828062, AI028564, AW173227, AW102657, and AL035460.	

HDTJA78	1072	883094	1 - 541	15 - 555	AV718339, BF344891, AW965403, BF697298, AA022743, W07846, H46081, H46779, AA334026, N77316, AI751420, AA384525, N46299, AW378996, N35279, BE710198, N36985, AI075698, BE855987, AI741294, AI264212, AI743748, AI810383, AI885307, BG054698, BE909545, AI796828, AA503222, AA528192, AW301086, AV744392, AW152463, AI127346, AF009750, BF431950, AI357562, BF195376, BF432674, AA970897, BE841870, AI361478, and AF151078.
HNGPL75	1073	883101	1 - 505	15 - 519	BF516196, AA768044, BF935312, and AC005332.
HNTDV93	1074	883131	1 - 1044	15 - 1058	AU124766, BG028653, AU136930, BE207628, BF791639, BE262742, AA085574, AA147472, AA490803, AW503392, BE541561, AI239866, AK001269, AL354612, AL354613, and AL049745.
HNSMB73	1075	883132	1 - 1491	15 - 1505	AV688331, BE249948, AW578849, AW613096, BE715066, AI693999, BE293664, AW001377, BF000269, BE715013, BF001637, AI282982, AI660280, AI052130, AW375538, BE217952, AW188465, AW377529, AI393989, AW271401, AW449683, AI393757, BE304583, AW341061, AW445089, AI925941, AW242836, AW295567, AW302806, BE467118, AW388101, AA135001, AI222949, BF805523, BE547149, AV697181, AW389155, AV692608, AW961449, AI469663, AI886483, AA627508, AW389158, AA135080, BE539520, BF768125, BF437745, AI380498, AW009792, AI474587, AA313367, AA860541, AW176537, AA343712, BF759855, AI537415, BE712167, H87671, AW135036, AW388103, AW971032, BE305221, AA470716, D12068, BF760494, D12330, AW377098, and AA503691.
HTLGL03	1076	883142	1 - 937	15 - 951	BF032559, BE747016, BG167981, BF063322, AA478705, BE002981, BF205212, AW808044, AW808140, AW808061, AW808181, AW807990, AW808114, AW808017, AW808050, AW808034, AW808224, AW808005, AW808014, AW808104, AW808134, AW807995, AW807998, AW808016, AW808111, AW808119, AW808175, AW808136, AW807996, AW808002, AW808011, AW808026, AW808110, AW808127, AW808135, AW808137, AW808177, AW808185, AW808145, AW808101, AW808083, AW808214, AW808159, AW808180, AW808188, AW808176, AW807991, AW807993, AW808007, AW808008, AW808010, AW808138, AW808192, AW808195, AW808201, AW808202, AW808056, AW808196, AW807975, AW808215, AW808239, AW807992, AW808055, AW808153, AW808208, AW808080, AW808100, AW808120, AW808074, AW808102, AW808141, AW808000, AW808036, AW808106, AW808165, AW808064, AW808066, AW808041, AW807972, AW808025, AW808173, AW807994, AW808062, AW808087, AW808228, AW808190, AW808260, AW808035, AW808049, AW808029, AW808131, AW808142, AW808187, AW808059, AW808028, AW808069, AW808107, AW808109, AW808182, AW808057, AW808171, AW808058, AW808072, AW808113, AW808112, AW807974, AW807970, AW808030, AW808184, AW808263, AW808121, AW808170, AW808093, AW808210, AW807970, AW808169, AW808019, AW808031, AW808068,

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HGBCN41	1077	883149	1 - 1200	15 - 1214	AW808174, AW808203, AW808259, AW808146, AW808189, AW808047, AW808164, AW808039, AW808152, AW808227, AW808085, AW808197, AW808241, AW808128, AW808163, AW808212, AW808088, AW808150, AW808116, AW808092, AW808003, AW808022, AW807973, AW808147, AW808013, AW808082, AW807963, AW808065, AW808236, AW808247, AW808063, AW808105, AW808151, AW808099, AW808198, AW808097, AW808060, AW807997, AW808154, AW808037, AW808038, AW808071, AW808211, AW808205, AW808103, AW808235, AW807979, AW807999, AW808183, AW807968, AW808130, AW808204, AW808148, AW808237, AW808084, AW808024, AW808255, AW808264, AW808144, AW808117, AW808258, AW808209, AW808160, AW808172, AW808246, AW808262, AW808199, AW808168, AW808250, AW808133, AW807969, AW807978, AW808222, AW808248, AW807980, AW808220, AW808090, AW807976, AW807962, AW808091, AW808244, AW808200, AW808225, AW808240, AW807971, AW807964, AW808251, AW808253, AW808158, AW808223, AW808206, AW808186, AW808245, AW808252, AW808149, AW808086, BF588488, AW808243, AW808156, AW808242, AW808226, AW808179, AW808231, AW808221, AW808230, AW808157, AW028975, AW808032, AW808089, AW808132, AW808238, AI417101, AW808042, AW808045, AW808139, AW808155, AW808098, AW808095, AW808054, AW808067, AW808249, AW808256, AW808006, AW808143, AW808115, AW808257, AW808096, AW808018, AW808015, AB037857, AF152344, AR005317, AR005280, AR005279, AR005281, U26595, AR005296, AR005295, AR005282, AF004133, and AF004134.
HWMBU89	1078	883172	1 - 638	15 - 652	AI968291, AW015537, AW015528, AI004170, AI651507, AI656733, BG255504, AI186229, AI089468, AA618298, AW014507, AA278858, N93263, AA278426, C18509, AA297634, AW964214, AA298350, D78781, and AA297960.
HSEBA38	1079	883175	1 - 1259	15 - 1273	AW956958, AA368362, BF037395, T52098, R69052, R27072, AA397783, BE018738, AA393589, BE562464, T95399, AA912955, AW137196, AA155762, AA188555, and BF036500. BG120823, BE869307, BG033765, BE387292, BE251660, AV655974, BF037530, BF306195, BG254407, AA485950, BE905968, BE065146, AW984415, AW984417, AW984416, BE676498, BF979227, BF309616, AW984420, BF691174, BE693917, BF306475, AW984423, BF310813, AW984418, AW984338, BG252706, AA315010, BE314347, AW984422, T66123, BE869619, BF573743, BES38385, BF306361, BE905732, R61430, AW984421, W37275, BE902628, AW984413, AA451629, BF305130, H37844, AW984346, BG122978, AA309734, BE792425, BF375767, BE882111, BE298404, AI751646, AW984344, AW364601, AW984345, H75310, R81022, AA354776, R95799, AI903841, R66175, T71499, N58667, BE737387, W25203, AW090258, H19408, H66405, R87079, BF792931, BF819503, W96032, H91979, BF946450, N48499, BF030495,

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HSXCV48	1081	883211	1 - 1573	15 - 1587	
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	1082	883219	1 - 1379	15 - 1393	AX008555, AR015960, V00745, AX023550, I60241, I60242, AR000007, AR015961, AX023551, A64081, AX023546, A58521, AX023553, AX023548, AX012337, I00074, AR020969, AX001323, AX001324, AR054109, AX003207, I03343, AF156296, AX006823, AF261959, AF261960, AF261966, AF261962, A58524, AF261963, AF261967, E03165, A58523, A81878, AR036903, D28584, AR072500, AR069650, A24783, A24782, AF261968, AR022240, AF156294, I66494, A11245, A02710, E12615, AX018504, I66498, I66497, I66496, AR035193, I66486, I66487, A92133, E14304, A07700, AX027811, E00523, AX027809, A13392, A13393, I19517, AR096518, A27396, AX027813, AX030369, AR038286, AX030368, A76773, E13740, AX000085, A22413, AR027100, I28266, AX042377, AX027812, AX035980, AX027810, AR091518, AX027816, AX042375, AX027817, AX027818, AX027814, AR085082, AR085089, AR085091, I21869, AX042373, I13349, A49045, AR085079, I92483, E16678, A82653, AR085083, Y17188, E16636, A35536, A35537, AR074365, A93016, A70040, AR093392, A02135, A02136, and A04663.
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HTLID36	1085	883250	1 - 524	15 - 538	BE265496, BF345559, AA306051, BF059594, AL530637, BE251290, BF725987, AL527531, AA070434, BE251711, AW615140, R59555, AA463606, BE265172, T75254, R22688, BG150985, F12816, AA025180, AL044150, AA102145, AW351626, BG258647, BF305941, AI905169, AA085388, BF844011, AI631620, AL080126, AL137394, AB014583, and AK001786. BF510785, AX027892, and AC003662.
HSLHV27	1086	883287	1 - 1000	15 - 1014	AW975618, T03269, AW966053, AW949656, AV742001, AV701125, AV701335, AV701166, AV701043, AV701332, AV701017, AV701248, AV742048, AV701431, AV719468, AW949642, D80212, AW966531, AW978634, AW966534, D58283, AW966013, AW949655, AW966041, D80166, D80195, AW975621, AW959202, D80193, D59927, D51423, D59619, AW978661, D80210, D51799, AW949654, D80391, AW960553, D80240, D80253, AV719822, AW966054, AV718489, AV720203, AV701130, AV718692, AW966050, AV742430, AV719188, AW973307, D80043, D80227, AV701154, AW966062, AV719324, AV718440, AV719783, AV720028, AW959597, AW959628, AW965177, AW959570, AV718800, AW973470, AV720211, AV718844, AV720464, AV719557, AV718770, AV720731, AW959582, AV699447, AV722801, AV723927, AV724520, AV699550, AW949641, AV699927, D59859, AW966560, AW949631, AW949643, AW949618, D80196, D80188, D80219, AV744770, D80269, D80038, C14429, D59889, AW752082, AW949645, AV701443, D81030, AV701419, AV701149, AV718707, AW964737, AV720791, AW965158, AW949629, AW949653, AW949646, AW949633, AW949632, AW949658, AW949657, AW964488, D80366, AV720812, AV721386, D59502, AV718633, AW960465, AW975605, AV700889, D57483, AW966043, AV721784, D80022, AV723097, AV701428, D59275, AV720654, AV701415, AV701344, AW973447, AV701422, AW753053, D80045, AV701357, D59610, AW973485, AV718931, D80024, AW959799, AV699746, AW178893, D80378, AV743601, D50979, AV699682, D50995, AW177440, AV745080, AW966022, C14389, AW179328, AW978648, D80241, AW973541, D59787, AV741012, AV742720, C14014, AW964766, C75259, AV744690, AW959469, D80164, AV701224, AW964756, AV718938, AV742671, AV701021, D51060, AW973334, AI905856, AV700229, AV723247, AW956397, AW965176, AV699669, AV744773, AV744934, AV645383, AV645393, AV681528, AV681474, AV645339, AV681472, AV681507, AV681465, AV681525, AV681495, AV681505, AV681504, AV681486, AV681464, AV681487, AV681506, AV681523, AW965163, AW973482, AV958992, AW966029, AW958993, AW959136, AW959062, AW964477, AW956434, AW966065, C14331, AV719049, AV701004, AW973474, D80134, D59467, AV719913, AW965197, AV719628, AV645389, AV681531, AV681529, AV681510, AV681491, AV645344, AV681488, AW965185, AW965184, AW973488, AW965175, AW378532,

HSLJG70	1087	883295	1 - 807	15 - 821	
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HSFAK30	1088	883301	1 - 1039	15 - 1053	AV742996, AW966531, AW959628, AV743008, AV745255, AW949657, AW959582, AW975621, AV719188, AV719557, AW973307, AV718681, AW949631, AV718674, AW752082, AW949646, D80166, AV720028, D59859, AV746320, AW960553, AW966054, AV718440, AW966534, AV742048, D80269, AV745411, C14429, AV720654, AW964737, AW965177, D59502, AW949618, AV699321, AV745496, AV742430, AV701231, AW966013, D58253, AW966041, AW959202, AV681500, D80024, AV645401, AV645332, AV645383, AV645379, AV645385, AV645389, AV645369, AV645380, AV645390, AV645400, AV645392, AV645393, AV645353, AV681458, AV681531, AV681492, AV681529, AV645334, AV681510, AV681528, AV681474, AV645339, AV681491, AV681472, AV645344, AV645317, AX027925, AX020190, A67220, AR025207, A25909, D34614, AX021518, AX047062, AB012117, A85396, Y17188, AR074141, AR066482, A85477, AR088705, A86792, AX042372, I19525, X68127, AX020191, D26022, AX033851, AB037923, A62300, A62298, X67155, A44171, AX047063, AR092424, A78862, D89785, AR070327, A84916, I18371, AJ302649, A80951, AJ132110, AX047064, AJ294956, D88547, X93549, AX035434, AF260572, X82626, AR017907, AX015396, AF135125, X92518, AJ287395, AR018138, AR074545, AX028130, S69292, AR064240, AF058696, X98248, X60736, Y12724, AR008278, AR051191, AB028859, S78798, X89963, AR087649, A94995, I15997, AX035429, AX035428, AX035426, D88507, A43601, AR008443, I50126, I50132, I50128, I50133, I18367, AR066488, A82595, AB033111, Z32749, AR016514, D50010, AR060138, A45456, A26615, AR052274, AR066490, Y09669, AR060385, AB002449, AR066487, AR074136, AR074139, A30438, A43192, A43190, AR038669, D13509, X55486, Y17187, AR087528, U87247, AR008408, AR060133, AR008382, and X93535. BF038709, AL535064, BE735985, AL524497, BE791458, BE736087, BE562250, BE783282, AL526323, BG109153, BF796333, BE562249, BG008920, BE886594, AA603194, BE297680, AW162550, AW821216, BE884388, BE905469, BF738937, BE735782, AW875604, BF526909, BE241615, BF923489, AW371799, BF914307, BF912921, AA077320, BF816477, AL520849, BF737438, AA077375, R73777, AW964991, BF032261, H84735, AA333205, AI363439, AW160945, BG178107, AI076687, BF593670, W78920, AA677240, R07794, BE166170, BE858391, BF758159, BE166159, AI146527, AW402635, AW371811, AA078038, AL520850, R28399, R73930, BF924275, AA703130, R05969, AA335359, AA335698, R11257, BG177266, AA090927, AW901978, BF977977, H52765, AA077337, and AJ277740.
HTTBM62	1089	883307	1 - 1515	15 - 1529	AU125328, AL527538, BG035590, BF981939, BE730643, BE777871, AW402127, AL049049, Z99416, BE621625, BE539325, AW501555, AA160575, BF751234, BE621043, BF875867, BF851714, BF850372, AW965571, BF155429, H14122, BE302965, AI557032, BF032391, BG166905, AA100571, T08526, BE622467, BE897998, BF331625,

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HFCDT23	1090	883327	1 - 380	15 - 394	BF683905, BE898653, BE261926, AL529590, BF971956, BG116771, BE263739, BE737365, BE267185, H18050, BF846466, BF846535, BE785716, R55572, and BF314854.
HDPGU86	1091	883328	1 - 775	15 - 789	BF683905, AL529590, BF971956, BE898653, BE261926, BG116771, BE737365, BE263739, BF846468, BF846466, BE267185, BE785716, H18050, R55572, BF846535, BF314854, BF315199, BF314965, AI904024, AW270504, BF981018, BE796373, BE734552, BF317165, BE298415, BF185247, BE313446, BE314719, and BF311361.
H2CBE07	1092	883335	1 - 2337	15 - 2351	BG035669, BE906066, AW192879, BE502489, BG167933, AI636759, AW958803, AW958798, AW304786, AW966067, AV726634, AW499902, AI818087, BE551739, AI962811, AW002879, BE907852, BF197557, AW966216, AI139820, AI703385, BG231549, AI765960, AV723104, AI420752, AA287817, AV724367, AI660053, BF132412, AW995337, AW134652, AW051811, AA830471, AI917176, AI761208, AI797936, BE466159, AI923951, BF183857, BE220074, AA938723, AW408136, AW837534, AA031728, BE898378, AI307761, BE219452, AI885507, AI088217, AV723103, AA972358, AW337437, AA599138, BE042863, AI307334, AV723166, BF247256, AA478708, AI347549, AW136648, AI310382, AW407219, AW517973, AA721966, AI377084, R54281, AA973851, AA478573, W45294, AW407970, AI033131, AA810858, AA031619, AA307073, AW002244, AA076314, AV649960, AA534598, AI694925, AA761785, AA827338, H88051, W65479, AI828859, C75311, AA913468, BF904403, AA323865, AW837600, AA772486, AI655884, AA009923, BG150148, BF856438, AA453971, W53019, AA111854, AA076486, BE968507, AA887506, AI619514, AA708726, AA732750, W65430, R51893, AA046962, BF434548, T10188, H65908, H73031, AI915339, AA383766, AI243262, W40166, H88262, AA365997, AA046897, AA847922, AW837536, T60023, BE161276, BE774532, BE161271, AI032598, BE161274, AA644330, H30061, H30071, AA337185, AA234173, H65822, R00439, AW510703, BE170717, AA740776, BG032221, BE764245, H77921, AA847923, AI910068, and AB000280.
HFIHS04	1093	883358	1 - 1408	15 - 1422	AL533833, BF967713, BE907577, AU126910, BE738662, BE731437, AW970004, BE962738, BF967077, BE788909, BF343694, BF207957, AI148761, BE737688, BE272694, BE866037, BF439497, BF208159, BE612999, AA865609, AW769492, BE564507, AI276480, BF676791, AI361348, H17761, AI302886, AA812569, R52799, BF965044, BF208977, AW014881, N94214, BF725860, BF889390, AV657236, AA873078, N91665, AW188283, AW952313, AA588382, AI393671, AI472062,

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1094	HTXLP33	883359	1 - 1120	15 - 1134	BE263910, AW136741, AA732449, AW952461, BE905268, BF001705, AW005266, BG035177, AI418924, AW665083, AI823637, AI934452, AW753304, AI434286, BF798182, AA328784, BF748001, AV701882, BE747174, H49680, AA971066, Z41923, Z38218, AA626584, BF891761, BF871857, BE246116, and AK025823.
1095	HMEKG76	883364	1 - 1701	15 - 1715	BG022941, BG119256, BG029634, BG178386, BG255413, BG253982, AW340726, AV701987, W63619, BF476053, AI634542, AW300114, BF440047, AI672402, AI991208, AW664983, AW300127, BF062023, AI632484, BE326467, BE221787, BE501517, AI672557, AI498167, AW274451, BF950756, BF106232, H18069, AW006266, AI392880, AW182579, AW665773, AW573189, AI659606, AW664939, AI862877, AA669693, AI971599, AA029847, H17376, AA446051, AW197453, AI339270, AW469508, AI989522, N62971, AA455715, AI090733, BE168366, AI364520, AA432293, AW362319, N66064, H72683, AW205556, AW190461, BG255535, AA719182, AL523442, AI168162, BF961464, AA278458, AA952896, H72682, AA029982, BF961416, AA024419, AI122611, AA459224, F07569, F07568, F07042, AI631939, H10769, AA383416, BF961418, AV683384, BE044173, R35808, R13304, AV727526, AV727003, AA715091, BE174455, AA365202, AA365102, H10770, BF842071, AW593191, N33816, AW887602, BE171075, AW579496, AW378486, AI368524, AA089894, AI935327, AW057906, AA780265, W61128, AA091950, AV714959, N95657, BF766303, N79875, N56479, BF957703, BG249755, BE140681, BF886485, BF196618, AI243525, BF733772, AI921096, AA383283, BE812538, BE222612, AI001837, AI870510, AA471159, AW968418, AV713510, AW887634, AI912594, AI681695, AL121749, AK024813, and AL117336.
1096	HTENG02	883375	1 - 967	15 - 981	BG032568, BG258693, AW361921, AW452028, AW003102, AW074299, AA132510, BE886540, BE251624, AA132822, AI672110, AI913647, BE184180, BE890999, T08399, AA927474, AI738889, and BE546689.
1097	HTOAW80	883376	1 - 1460	15 - 1474	AI821606, AI826629, AI304327, AI660560, AI791844, AI984141, AA573825, AI991272,

1098	HAJAW57	883401	1 - 1023	15 - 1037	AA593860, AI983793, AI274929, AI346155, AI660493, AI281211, AW050605, AI821178, AA618335, AI732165, AW009962, AA469031, AI262416, AI924216, AI695625, BF917041, AI921289, AX035346, AX035348, Z57552, and Z59954. BF528058, BE273923, BE439742, BE408159, BF307520, AI813432, AI292245, AI814563, AA019878, BFI96961, AI831724, AI582764, BE268324, AW770967, BE270519, AI186850, AW410293, AI283062, AI219926, AA058975, AA973092, AA012909, AA505456, AA400955, AA460462, AI351691, AI149149, AL521938, BE886618, AI582775, BG120766, AI200494, AI280986, AI264484, BE410391, BE967314, AA601074, BE385012, AW009398, W92428, R88287, BF930634, AA825970, AW965062, AA019885, BG150336, BE536000, AI424437, AA343573, AA363038, AW672945, AA401034, AA375507, AA058391, R98528, AI990124, AA811179, AW994042, AA360468, AW994258, AA504263, R16603, AI005450, AA337539, BE175409, T85469, BF801743, AA312024, R08542, BF768328, BE251984, AA334893, AA702742, BF803105, AW006005, AA670319, AA386071, AW366954, BE935221, BE817925, BE818000, BE829709, BE818073, BE829698, AI497990, AA701876, BE818093, AI356246, AI915140, BE818034, BE818001, BG232121, AA287876, AA883159, AA825603, AA278771, AW978957, BF349466, AA324897, AII85067, BE817924, BF692937, BE818079, AW956436, BE001853, BE931047, AA164277, AA308982, BE828336, BF958125, R16545, AI367795, T85371, AA588089, AW006825, BE698240, AA864538, BE082704, BE095169, AA463402, BF921578, AI133147, AW966558, BG112207, AW389192, AA001880, AA502407, AI339506, AW389196, BE568553, BE933379, BE698404, AF116666, AC005876, and AL161936.
1099	HTEHF89	883419	1 - 761	15 - 775	AU118684, AV728273, AV717005, BF575231, BE748156, AV718330, BF033632, BF979733, BG104800, AV734854, BF691687, AL038768, BF983256, H17763, BE738971, BE568917, BF246715, AL035739, AA084554, BF970684, R52491, BE785069, BF904068, AV717056, BE877473, AV726438, H16532, AI903894, AI750581, R21494, BF351545, AV738720, BF790498, Z41981, BF035136, Z46107, BF241139, R13337, BE087028, AA322574, AU151320, AA448043, AA813354, N45076, T26420, AA461375, AI903843, BE708531, AI792383, AF212245, AF161445, AF151047, and AK021683.
1100	HSYBB84	883420	1 - 1106	15 - 1120	AU118684, BF970684, BE877473, AV728273, BF983256, BE748156, AV718330, BF575231, BG104800, AV717005, BF033632, BF691687, AV734854, BF979733, BF035136, BF790498, AL038768, AU151320, BE568917, H17763, AA813354, BF246715, AL035739, BE738971, AA084554, BF904068, H16532, BE785069, R52491, AV726438, N45076, Z43102, AI903894, AI750581, BF351545, AV717056, AV738720, N27471, R21494, Z41981, AA490571, BE708531, R13337, R34412, BE087028, Z46107, BF241139, BF980024, BF949574, AA448043, AA322574, BE172329, BF734574, BE748570, BE765651, BE765971, BE766126, BE765613, BE765878, BE766444,

| HTJMD30 | 1101 | 883430 | 1 - 745 | 15 - 759 | BE766511, BE765418, BE765879, BE769154, T78200, T26420, BE828025, BF734672, AA461375, AI903843, AA625491, BE620517, AL035740, W20261, AV702789, AW963862, AV704785, AV705246, AA092518, AW957677, AV692197, AV707067, AV705437, AV703591, AV725031, AW963768, AV709273, AV703515, AW964410, AV726787, AW959601, AV707088, AV684362, AV704607, AV707304, AW949478, AV727510, AW956792, AW950443, AV703878, AW960601, AV705684, AV727381, AW952403, AV709580, AW952183, AV726026, AW952751, AW956075, AV645936, AV709587, AW955723, AV658084, AV692600, AW962978, AV650315, AV697880, AV659389, AV727613, AV656373, AV726010, AV660258, AV708109, AV647789, AW959521, AW956474, AV727787, AV659294, AW960655, AV703146, AV725745, AV686060, AV728148, AV660608, AW951239, AV726590, AV656478, AW951187, AV703790, AV709314, AV653353, AV654070, AV709935, AV691080, AW951281, AV702385, AV658275, AW949802, AV652001, AV695700, AV728715, AW955662, AV703669, AV707979, AV725208, AV727003, AV706975, AV725582, AV708786, AW957517, AV659547, AV727526, AV725618, AV651920, AW954439, AV725633, AV702266, AW953797, AV725577, AV725033, AV706223, AV728924, AV725617, AW954206, AV707863, AV725991, AV696931, AW952410, AV703062, AV727822, AV699089, AV705135, AV701874, AW954697, AV703501, AW962444, AW964585, AV702772, AW954237, AV706417, AV707401, AV701183, AV709660, AV704585, AV654035, AV707652, AV707663, AV707654, AV728721, AV683994, AV704042, AV654282, AV697288, AV709880, AV729220, AW954134, AV687035, AV698290, AV706882, AV704847, AV694836, AV697498, AV727314, AV702954, AV694812, AV686420, AV727238, AV682997, AV696866, AV727126, AV707656, AV655890, AV728997, AV701946, AV706162, AV686390, AV705635, AV702794, AV656256, AV686417, AV686083, AV698429, AV656240, AV655577, AV704217, AV692972, AV694871, AV727459, AW954248, AV655901, AV689410, AV695545, AV687946, AV702790, AV728546, AV703762, AV702854, AV706734, AF212245, AK021683, AF161445, AF151047, AL121694, AX047063, A62298, AR050070, A62300, AX009343, AX009341, AX009337, AX009335, AX009345, AX009342, AX009344, AX009340, AX009339, AX009336, AX009338, AX009334, AX009334, AX047064, A82595, A82593, U94592, Z30183, U45328, AX040581, AF006072, AF320628, AB002453, AR025466, and AX046743. BF793125, BG249406, BE395704, BF794230, AW964084, BE896822, AV713741, BG166649, AV661198, AV714350, BF967229, BF382749, BF245290, BF675022, BF213417, BF668388, AW364013, AA171435, BF965857, BF246319, AA305800, AA356684, AA375715, AI418308, AA654812, AW401534, AA373289, BF035681, and R57135. |

HELFG05	1102	883434	1 - 3660	15 - 3674	AL527597, AL529809, AL514080, AL527596, AL530567, AL526637, AL529295, BE782057, AU136598, AI114859, BF511315, BG122646, BE899304, BF060737, AW963787, AI655903, BF433373, AI861932, BF433046, AW959237, AI861943, AI638304, AI830718, BE407719, BF508933, BG002362, AI640304, AW880750, AI694708, BF447073, AA701903, AA442774, AI884667, AI862404, AI694324, AI419019, AI381931, AI990933, AI990711, BF062018, AI889002, AW450416, AA496239, BF000126, AW572529, BF588721, AA780173, AI148378, AW104502, BE670537, AI200382, BE048538, BF110069, AI248156, AI366216, AI086796, AA442132, AW452176, AI337098, AA434531, AI651012, AW451933, AW663382, AI910996, AA429763, BF001754, AW172442, AI798632, BF114632, AW450457, AI686495, AI565622, AW771410, AI346793, AU156790, AA834046, AI074599, BF508482, AW339508, AI310364, AI298503, BF509650, AU144823, AW294987, W68566, AI675232, AI872891, T93878, BF924951, AA442101, BF987529, BG057507, AI364465, AI193543, AI130863, AI765479, AA456203, BE645691, BF928269, AA723857, N92388, AV724981, AI468507, BG006079, AW770995, BF477789, AI672711, AW449730, AA010215, AA427828, AI187099, AI537838, W68567, AA621634, AW470742, BF111464, AA885026, AW023979, AI183292, AI954815, AI313208, AA442131, AW135628, AA340007, AI004499, AI417504, W24584, BF063027, AI371368, AW449927, AA375179, AI963892, AI916136, T09256, AI921195, AW079270, R86293, AA815198, F30301, T54370, N54040, AA707604, Z19140, AI349321, AI571348, T93921, AW879730, AI242929, AI193748, W95356, BF062075, AI183908, AA330901, AI825347, AW471024, AI926388, AA903834, T54262, AA719132, AA593079, AW956432, AA610289, AI401113, AI202906, AI640676, AA093708, AW571951, BF927226, AI919371, AA093723, AI620803, W73758, AA010274, AA044379, AI868834, AA095496, AA044447, AA294936, AI002625, BF853901, W95275, AW796789, AW452667, AA496240, W73592, AI803594, AP000501, AK001914, AL110244, AB040964, AF298153, AF206673, AL137610, AF130058, and AI659780.
HHEHG38	1103	883493	1 - 1843	15 - 1857	AW976358, AV686983, AI807087, AV646121, AW961968, AV646138, BE549529, AA424670, AW271548, AI419841, AW592539, AW501010, AI538436, AW501128, AA424573, BF700169, AA770475, AV659105, AA004250, AV660261, AV658479, H72674, AV658573, AV646230, AV660130, AV660299, R00934, AV683433, AA873728, AA742969, AV646353, AV972636, T08315, T77004, AW796868, AV707357, F13040, F12949, AA699932, AA761228, AA766036, AA987961, AA947936, W72622, W27156, AW016152, AA761066, T75185, AA488904, AW138334, AI866469, BG110517, BG029667, BF061529, AI433157, AI554821, BG252929, AW151136, AI539771, BE897632, AI537677, AI494201, AI500659, AI815232, AI801325, AI500523, AI582932,

AI872423, AI923989, AI284517, AI500706, AI491776, AI445237, AW151138, AI521560,
AI889189, AI500662, AW172723, AI284509, AI889168, AI440263, AI866573, AI633493,
AI434256, AI805769, AI434242, AI888661, AI284513, AI888118, AI859991, AI436429,
AI889147, AI371228, AI440252, AI866786, AI860003, AI610557, AI242736, AI887499,
AW015583, BF812963, AW858243, AI538850, BE885490, BF812936, BG257535,
AW015071, BE222387, BF338002, AL045500, BF795712, BE886728, AW138149,
BG260144, BF108457, AI890907, AI539800, BE965355, AI866465, AV743631,
BF058122, AI538885, BF910810, BF197725, BE326333, BF812438, BE674575,
BF057123, AI274759, AI371251, AI866510, AI681193, BE219161, AI801957, AI923046,
AI500714, BF921092, AA826395, AI355779, AI499986, BE673679, AL047422,
BE327092, BE963918, BE964512, AW139596, BF433075, BF811804, AI433976,
BE895765, AI690835, BE465341, BG108334, AI648567, AI539781, AI366900, BF970652,
AI476086, BF968504, AI581033, AI559957, AI432666, BE963035, AW197139,
AI539707, BF814409, BG113712, AI348880, AI521571, AI568138, BF814541, AI275175,
AI696060, BE964959, AI608805, BE964576, AI499463, AI280670, AI920968, BE964767,
AI610362, AI620284, AI440239, AI521596, BF727352, BG120046, BE965724, AI537273,
AI436456, AI371265, AI963846, AI744185, AI567940, AI610357, AI817244, AI491710,
AI612913, BF904178, AL119319, AI285826, AI863014, AI521594, AI499512, AI889133,
BF526393, AL042551, AL042365, AL042787, BG029053, AL042572, AL513743,
AI610402, AI434223, AI697243, AI610429, AI628850, AI828574, AI433968, BF812961,
AI539632, BE895585, AL515375, AI889148, BF987113, AW118237, AL042377,
AI539847, AI872074, AI828583, AI887775, BE875407, AL042538, AI872300, BF968907,
AW172745, AL042557, AI538878, AI354998, BG179586, BG111590, BG121959,
BF968622, BG114012, AI567935, AI805762, BG165260, AI432656, AW268060,
AI308035, AX040958, AX040974, I89947, I09499, A08916, A08913, I48978, AR038854,
AF032666, A08910, A08909, I46765, A93016, AK026086, AL122049, AB048953,
X70685, AF113222, A08912, E12747, I89931, AK026865, AL080086, AR087170,
A08908, AK026627, U66274, AR079011, AR079012, AL162062, AL133665, AL389939,
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AL122110, L13297, AF067728, AX042059, AL049283, AK026480, AL133080, A77033,
A77035, AF087943, AL133081, AK026744, AX045627, AB050431, AF090903,
AL137533, AL133077, AL050146, AL353940, AL133049, E15569, AL137292, AF081195,

HSLDT25	1104	883540	1 - 1531	15 - 1545	E07361, AL353625, A18777, A08907, AK024538, AL353957, AF110640, AF130105, AL359941, AL133070, AF217987, AL137705, I48979, AF130104, AK027114, AF116676, A65341, E04233, AB041801, AJ299431, AB048919, AL050172, AK025092, AF116654, E06743, AL117585, AK025632, AL080158, AF262032, AF130082, AK026464, AF130110, AL122123, AB034701, X72889, AK026532, AK026408, AK027113, AB051158, AK027096, AK026528, AL137478, AF217966, AR000496, U39656, AK026626, Z82022, AB050533, AL117416, AK025435, AK027160, A93350, AF026124, AF116602, AL110221, AF125948, AF158248, AX010492, AL137550, AL050393, AL110222, AL122121, X83508, AL137476, AB049848, AK025889, AX005848, Y10655, AX005804, AR013797, AK026550, X82434, AL137526, X87582, AL050024, AL049430, AF113699, AL133640, AK024601, E02349, AL359596, AL117583, AK026741, AK000083, AF111849, AF219137, Y09972, A90832, AL117457, AK026452, AF177401, AX027129, AL353956, U78525, AF106657, AF008439, AF285167, AK000450, AL390167, AK026542, AB052200, AL049938, AK025857, I17767, AR059958, AK026950, AF130087, AF090900, AL096744, AF061943, AF113013, AK026591, AL121656, AF119337, L19437, AL389978, AK025391, AK025375, U30290, AF061795, E08631, AF151685, AL133568, AL137488, AK026506, AF000145, AK026647, AL133112, AL359618, S78214, AK000486, AK026600, U00763, AL137300, I89934, AK026593, Y10080, AF111112, AF078844, AL080060, AF090934, AK024588, Y16645, AK025967, Y11587, AL080074, AL110196, AK026583, U58996, AL359583, AL137648, and AL137459.
HSDGH19	1105	883575	1 - 1696	15 - 1710	BE783089, BE789391, BF772511, BG165382, AI862790, BF771072, BE152519, BF932134, AW818329, BF674751, AW819150, BE843100, AW819068, BF900998, AW819148, AW859021, N44628, AW819071, BE843098, AW858883, AW819129, BE843109, AW818377, AW858884, N33817, BE843087, BF334447, AI421263, AI920892, BG109013, BE139139, AI250552, AI251034, BE927394, AW270255, AI284543, AI251284, AI251203, BE138387, AI561210, AI537020, AI340151, AI254770, AW303098, AI223626, AI278972, BF744666, AI753672, AI627614, AW270385, AW969743, AI362442, AI249853, AA464271, AA483606, AW674258, AA570740, AI251241, AW862005, AW063362, BE042006, AL135605, AI538491, AA568204, AL079894, AU146936, AL121928, AL158824, AC004826, AC004686, U78027, AC005913, AL034405, AL121601, AL133153, AL121601, AC006241, AC007276, AC007199, Z99127, AF165926, AL021918, AL008636, AC018639, AC004217, Z81314, U52111, AC004797, AL035659, AL158830, AL499629, AL078461, AC027319, AC008482, AC009238, AC007050, AL157701, AC020904, AC020904, AC005245, AC006312, AC002430, AC011811,

HCEOU19	1106	883591	1 - 360	15 - 374	AC004983, AL031670, AC009721, AL109743, AC010150, U07562, AC003026, AF190114, AL049748, AC005363, AC011895, AL031281, AL121947, AC006454, AL031427, AC024561, AC007384, AC008623, AC018720, AC002418, AC004167, AC005625, AC008070, AL021939, AC002565, AL049839, AC002483, AC006160, AC008403, AP000505, AC020629, AC006251, AC002559, AL136979, AC024571, AC008392, AL033529, AC004985, AL031685, AC005632, AC004230, AC007371, AP000555, AC012384, AC004491, AL135744, AC002429, AL109825, AC002470, AL121753, AC007620, AL080317, U91323, AC005914, AF091512, AP000045, AR036572, U91328, AC007254, AP000359, AC007766, AC004876, AL049843, AC005800, AC005015, AB003151, AC005740, AL008718, AL159168, AC006211, AC005377, AC006483, AL022320, AC008753, AF038458, Z93015, AC002044, AC020552, AC012067, AC007011, AC024563, AL008627, AC007014, AL353807, AL353748, AC002553, AC003042, AC020917, L78833, AC007957, AC005098, AC011526, AC005067, AC004867, AC004638, AL031286, AP001748, Z74617, AC005046, AC006038, AC005082, AC005412, AL121712, AC005924, U91326, AC006057, AL133387, AC005796, AC007021, AL096870, AL139339, AC004166, AC018663, AC005821, AL133551, AC005154, AP000193, AC005004, AC003098, AL136300, AL162724, AC005519, Z77249, AC004386, AC004655, AL021808, Z84469, AC005089, Z97181, AC005479, AL050349, AC005071, AL133445, AC006509, AC004854, Y14768, AP001718, AF111169, AC008745, AL132987, AC002996, AL135927, AC007227, AC003035, AL163541, AC005666, AC011494, AP000700, AC006014, AC009506, AC000134, AC005006, AC008893, AL158198, AP001717, AC084732, AJ132695, AL035681, AL133243, AP000501, AC012519, AL031659, AF317635, and AL353574.
HBIMF04	1107	883607	1 - 1390	15 - 1404	BF685763, AJ272063, AX026848, AX002940, AX002942, AJ277028, AX002946, AF168787, AB041029, AB040873, AF158248, AF029310, and AB015231.
HSKZE56	1108	883619	1 - 2762	15 - 2776	BE732755, BE903494, BE732219, BE732100, BE798997, BF307455, BE790098, BG116782, AI922958, BE019403, BF056056, BF663106, BG004431, BF797004, BE296637, BF341424, BF346884, AI972432, BE779390, BF308290, BE392828, BF035118, AW614802, AW391908, BF856907, AI922949, BF037039, AW630084, BE205784, AI961967, BE297217, AA568658, AA484955, BF205124, BE268804, AW207083, AW139687, BF792778, BE247595, BE019143, BE241782, AW581613, AW195438, AW296274, H55661, BF871016, AW294860, AL119220, H61275, AW748832, R87853, H52133, H38451, R87771, BE620360, R87761, H52024, R90897, R88865, R87838, AL449244, AF218001, AL022328, and AK024447. BG106476, BG119187, AA181053, BE257196, BG236268, BF197693, AW070995, BE301017, AW955015, AW024308, AI371795, BF894719, AI161239, AI818105, AI394273, AI093150, AI887545, AL134379, AI363188, BE866848, BF530069,

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R61521, AW264606, AI493786, AA916418, BF955856, AW272434, H17937, BG054747,
AI360758, AI052260, AI095001, AW770457, AW965132, H10326, AI359151,
AW075618, AA134693, F31433, BF528314, T03395, AI817982, AI979030, AW300832,
AW084166, AA243467, AI452399, BF951739, AA871158, T32998, H15071, AA855131,
AA454109, AI285720, AA324883, AW572348, BF894735, BF926200, W81177,
AA017335, AA514586, AA644414, AI184956, AA243479, R06059, AL133847, R18957,
AI784342, AI421984, AI333523, AA807828, AI095515, AI183368, R43965, BF333745,
H05052, M85753, R50116, W35278, AA322031, AA243527, N50921, AI908431, H86804,
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AI014910, AW277066, F37567, AW772541, N24995, T39668, N98312, AI216243,
H11957, N66241, AI078029, BF000778, R50115, AI669736, AA524033, AA017061,
AA831598, R10625, W86705, BF873014, BF845849, W86572, Z39177, R46746,
AW510533, BE796665, AW014232, BF873016, AW050590, BF915203, BE788751,
AV694815, AW291518, F27948, BF856323, AA888297, BF838390, BG035560,
BG252898, F01396, BE763436, AA788758, R39991, AI128836, AI688769, T24089,
AI280911, BF528309, H17151, BE703280, AW516456, W23698, AA005309, C18689,
R32918, N72759, BF093980, F35610, H11956, T30762, AI760184, AW24569I,
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N73272, H55693, R05953, AW162120, AW836324, AI581836, BE208102, H55609,
H55200, AW517921, R10626, R32817, AW961980, Z43085, AF237769, AL159142,
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